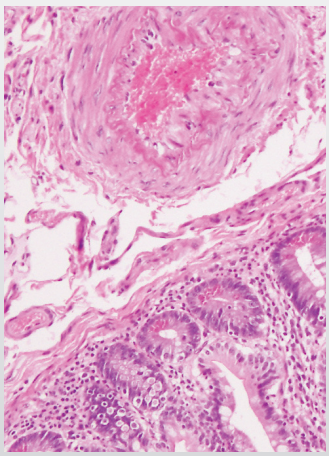
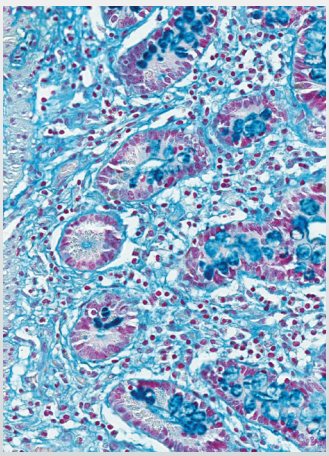
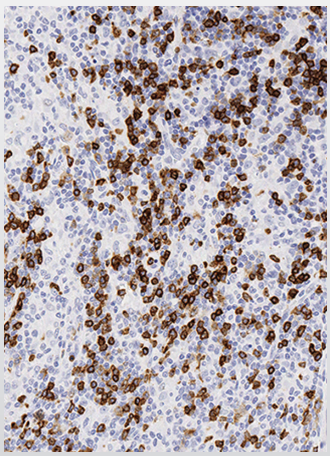
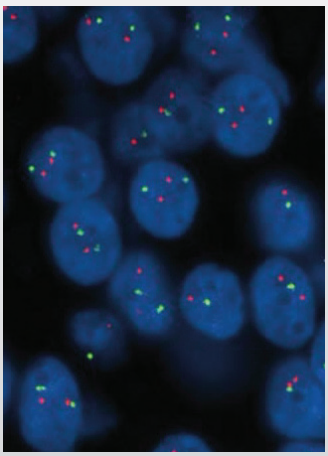
2016

Catalog | Products & Services

Dako

Agilent Pathology Solutions

Agilent Technologies

Dear Valued Customer,

Agilent is committed to the fight against cancer. Leveraging our tremendous strength within pathology, genomics and companion diagnostics enables us to serve you, our pathology customers, with a full breadth of workflow solutions for routine diagnostics. At the same time, we are in a unique position to accelerate the adoption of new groundbreaking technologies from a research into a clinical setting. These new solutions further address critical issues in bringing robust and timely diagnosis to patients.

We want to be your dedicated partner that can offer a broad product portfolio of products and the promise of exciting new technologies, with an ever-increasing ability to provide you with trusted answers that positively affect patient diagnosis and ultimately patient treatment. We are committed to meet your lab's needs, both today and tomorrow.

It is this ability to drive innovation and implement game-changing technologies into a diagnostic setting which makes us truly unique. And as we continually develop new and compliant solutions, collaborating with key pathology labs, our pharma partners and leading academic institutions from around the world, we will work together with you to continue to develop technologies which will advance the diagnosis and treatment of cancer.

In this year's catalog, we are pleased to present several new products, including 15 new FLEX Ready-to-Use antibodies for Dako Omnis, new SureFISH* probes and an IQFISH Panel for Lung Cancer. In addition, we are working closely with several pharma partners to very soon bring you the most important tests in recent cancer treatment history for PD-L1 testing. These products, currently only available in the United States, are the most recent example of our leadership in the diagnostics space, as the first company providing FDA-approved tests for PD-L1.

We hope you enjoy reading and using the new catalog. We are here for you and your laboratory, and will continue to do our best to be first choice as a laboratory partner in clinical research and diagnostics, so that together we can provide patients with trusted answers.

Sincerely,

Christian Sauber
Vice President and General Manager Pathology Division

* SureFISH probes are manufactured by Agilent Technologies, Inc.

Table of Contents

Table of Contents (continued)

Flow Cytometry and Specific Proteins

Reagent Partnership Division provides Dako's clinical diagnostic products within the area of *flow cytometry* and *specific proteins.* The Division focuses on two business areas:

- Retail sales of IVD-approved products within the areas of *flow cytometry* and *specific proteins*, including a broad range of assays for turbidimetry
- OEM bulk sales and assay development of antibody solutions and kits with special expertise in assay development and validation for turbidimetric platforms

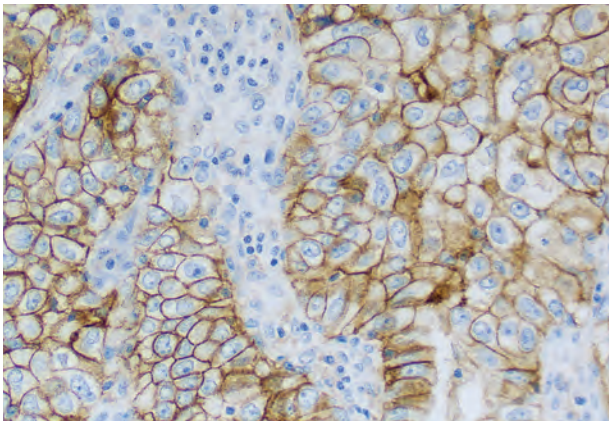
To acquire a product catalog for Flow Cytometry and/or Specific Proteins, please contact rpsupport@agilent.com or visit our homepage www.dako.com/index/products.htm.

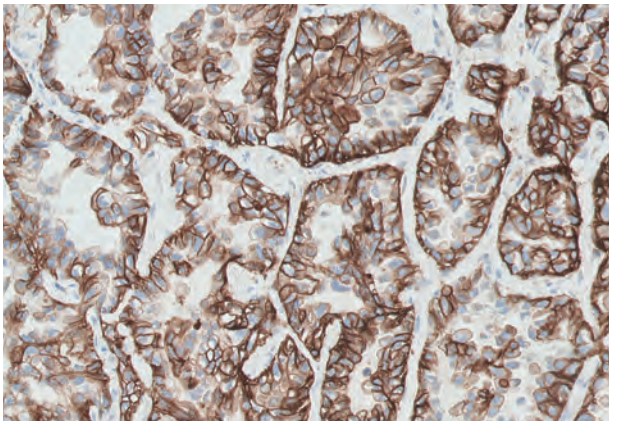
New in 2016

New Products

pharmDx Solution

We are working closely with several pharma partners to very soon bring you the most important tests in recent cancer treatment history for PD-L1 testing. These products, currently only available in the United States, are the most recent example of our leadership in the diagnostics space, as the first company providing FDA-approved tests for PD-L1.





Advanced Staining Solutions

Dako Omnis Solution for IHC and ISH

FLEX Ready-to-Use Antibodies for Dako Omnis				
Page	Code		Product	Package Size
27 74	GA505	Rb a Hu	Alpha-1-Antitrypsin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
27 75	GA500	Rb a Hu	Alpha-1-Fetoprotein, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
27 77	GA702	Mo a Hu	Beta-Catenin, Clone β-Catenin-1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
27 78	GA515	Rb a Hu	Calcitonin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
27 78	GA054	Mo a Hu	Caldesmon, Clone h-CD, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
28 81	GA623	Mo a Hu	CD8, Clone C8/114B, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
28 82	GA781	Mo a Hu	CD23, Clone DAK-CD23, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
30 88	GA508	Rb a Hu	Chorionic Gonadotropin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
30 88	GA083	Rb a Hu	Cyclin D1, Clone EP12, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
31 94	GA659	Rb a Hu	ERG, Clone EP111, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
31 99	GA510	Rb a Hu	IgA, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
32 100	GA513	Rb a Hu	IgM, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
32 103	GA074	Mo a Hu	Mammaglobin, Clone 304-1A5, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
32 107	GA607	Mo a Hu	Neurofilament Protein, Clone 2F11, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
33 113	GA075	Mo a Hu	Renal Cell Carcinoma Marker, Clone SPM314, Ready-to-Use (Dako Omnis)	60 tests, 12 mL

ISH Ancillaries and Accessories for Dako Omnis			
Page	Code	Product	Package Size
24	GC206	Dako Omnis Vial with Mixing Ball	2 mL

Advanced Staining Solutions (continued)

Autostainer Link Solution for IHC

PT Link			
Page	Code	Product	Package Size
38	PT200	PT Link Instrument	1 unit

PT Link Accessories			
Page	Code	Product	Package Size
38	PT202	Replacement Tank for PT200	1 unit
38	PT203	Spare Tank Cover for PT200	1 unit

H&E Solution

Dako CoverStainer Slide Rack (Code CS119)

The slide rack for Dako CoverStainer has a unique design which minimizes reagent carryover, extending reagent longevity and enabling consistent staining results.

At the same time, the Dako CoverStainer slide rack gives you full visibility of your slides which will help you reduce the time spent sorting them.

Molecular Pathology

IQFISH Panel for Lung Cancer			
Page	Code	Product	Package Size
181	G111600-8	ALK IQFISH Break-Apart Probe	20 tests
181	G211600-8	ALK IQFISH Break-Apart Probe, 6 packs	6 x 20 tests
181	G111603-8	MET IQFISH Probe with CEP7	20 tests
181	G211603-8	MET IQFISH Probe with CEP7, 6 packs	6 x 20 tests
182	G111602-8	RET IQFISH Break-Apart Probe	20 tests
182	G211602-8	RET IQFISH Break-Apart Probe, 6 packs	6 x 20 tests
182	G111601-8	ROS1 IQFISH Break-Apart Probe	20 tests
182	G211601-8	ROS1 IQFISH Break-Apart Probe, 6 packs	6 x 20 tests

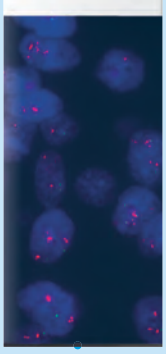
SureFISH* Probes			
Page	Code	Product	Package Size
183	G111200-8	ALK BA P5	5 µL
183	G111400-8	ALK BA P20	20 µL
183	G211400-8	ALK BA P20 x 6	6 x 20 µL
183	G111900-8	ALK BA P200	200 µL
183	G111202-8	RET BA P5	5 µL
183	G111402-8	RET BA P20	20 µL
183	G211402-8	RET BA P20 X 6	6 x 20 µL
183	G111902-8	RET BA P200	200 µL
183	G111201-8	ROS BA P5	5 µL
183	G111401-8	ROS BA P20	20 µL
183	G211401-8	ROS BA P20 X 6	6 x 20 µL
183	G111901-8	ROS BA P200	200 µL

ISH Accessories			
Page	Code	Product	Package Size
188	G9415A	IQFISH Fast Hybridization Buffer 200	200 µL
188	G9416A	IQFISH Fast Hybridization Buffer 200 x 6	6 x 200 µL
188	G9414A	IQFISH Fast Hybridization Buffer 900	900 µL

* SureFISH probes are manufactured by Agilent Technologies, Inc.

Get the full picture with Dako Solutions

FISH



Test request in LIS

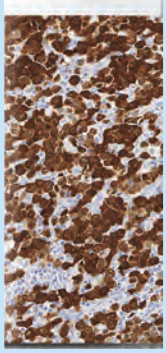
Instrument connectivity

Dako Omnis

DakoLink Omnis workstation

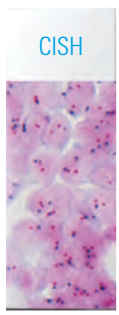
DakoLink server

IHC



Molecular Pathology

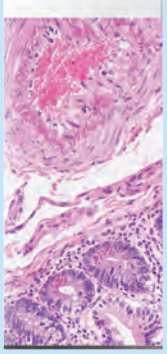
CISH



Supported by excellent service and support for your laboratory

Dako CoverStainer

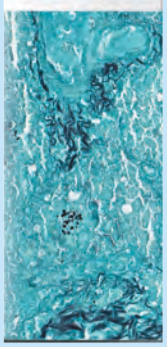
H&E



DakoLink workstation

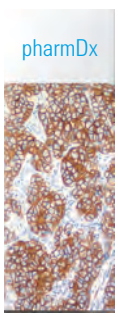
Artisan Link Pro

Special Stains



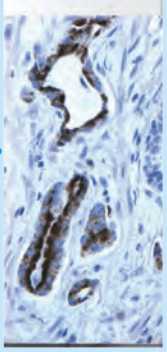
Companion Diagnostics

pharmDx



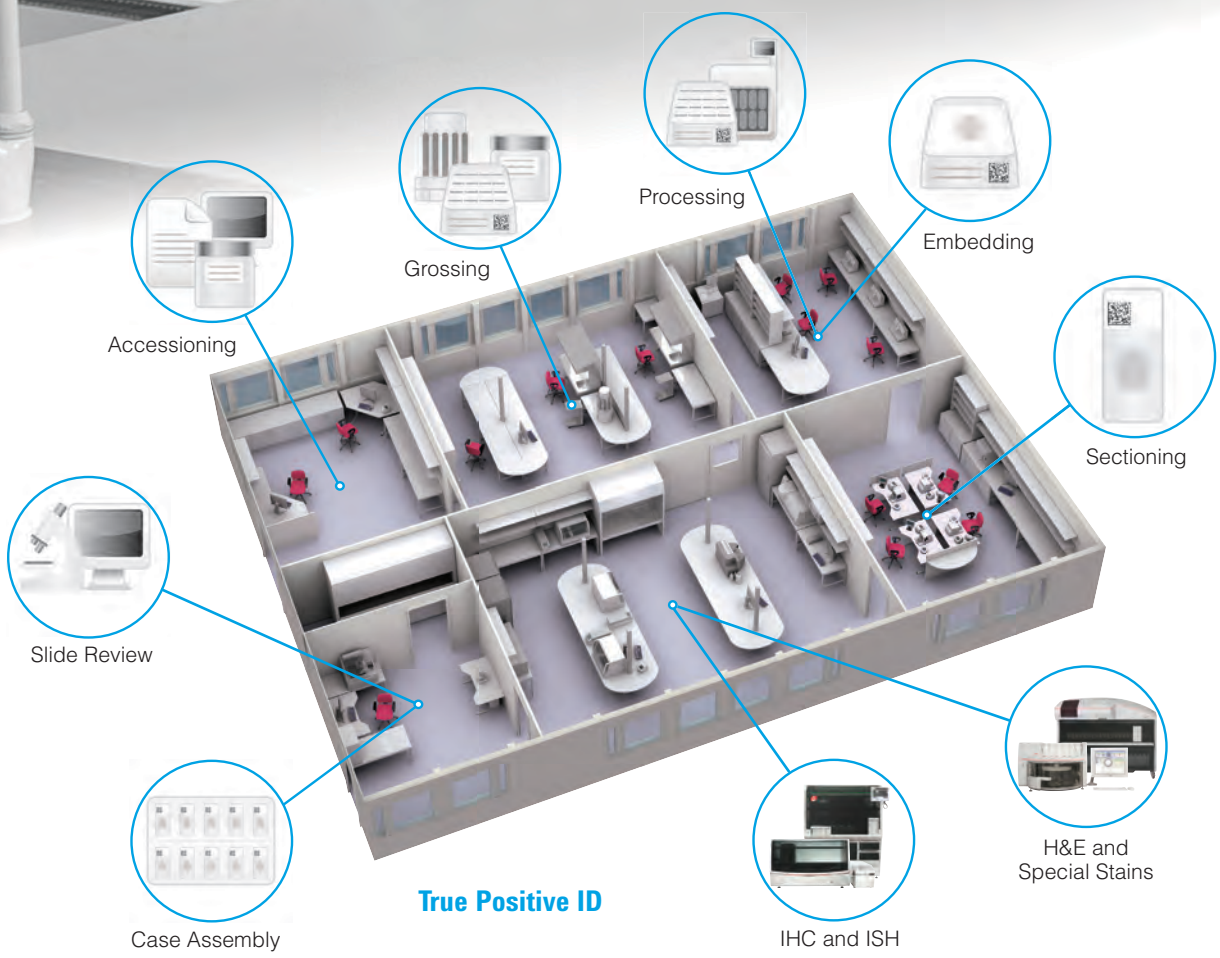
Autostainer Link

IHC



Dako Lab Control Solutions


Dako


Accessioning
Grossing
Processing
Embedding
Sectioning
Slide Review
Case Assembly
IHC and ISH
H&E and
Special Stains
True Positive ID

Dako Lab Control Solutions

Experience a new level of lab control and insight

The Dako Lab Control solutions consist of staining management, sample tracking and connectivity software that is both flexible and scalable to meet the needs of each individual lab. Either as separate modules or combined, DakoLink and True Positive ID enable your lab to:

- Minimize errors to improve patient safety
- Improve efficiency by reducing hands-on time
- Provide a full electronic audit trail to support quality and regulatory needs

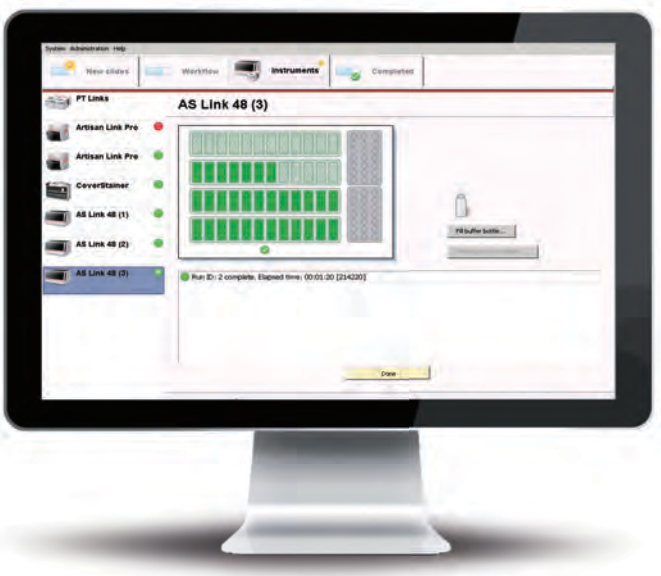
The DakoLink and the DakoLink Omnis staining management software connect all Dako staining instruments and allow you to share information across functions, create customized reports based on information captured and easily manage all instruments, slides, reagents and protocols.

DakoLink True Positive ID (TPID) adds sample creation and tracking capabilities, from accessioning to archiving. By registering every action for all case parts throughout all of the lab processes, TPID increases patient safety by reducing the risk of transcription errors and misplaced samples.

Dako connectivity for total lab control

DakoLink and TPID can integrate with your Laboratory Information System (LIS) and even connect between multiple locations, providing access from your lab to anywhere on your network. DakoLink has the ability to read LIS barcodes or create its own unique 2D barcode, ensuring every slide is uniquely identified.

With flexible connectivity capabilities, unique identification, work lists and reports, TPID and DakoLink work together to give you total control of your lab.



DakoLink

Advanced Staining Solutions

Introduction to the Advanced Staining Solutions

We listened. We responded.

Our commitment to advancing pathology begins with something very simple – listening. By listening carefully to pathologists and lab personnel around the world, we learned that there is growing pressure to:

- Manage increasing slide volumes with limited personnel and financial resources
- Process slides faster, to minimize time to diagnosis
- Cope with fluctuations in workload without sacrificing turnaround time
- Improve quality control of processes and secure consistency in quality
- Increase the traceability of patient samples to enable accreditation
- Find and retain well-trained, qualified staff

With almost 50 years of dialogue with our customers, We have helped drive scientific advancement and certainty in cancer diagnostics. We remain committed to delivering novel solutions and innovative technologies which support you to meet the challenges of today and tomorrow.

Dako Omnis. Developed by the lab for the lab.

Developed together with pathologists, lab managers and lab technicians from around the world, with the needs of the pathology lab very much in focus. Dako Omnis builds on our reputation for delivering quality reagents and staining solutions that bring certainty to cancer diagnostics.

Dako Omnis provides:

- A true automated, walk-away solution
- High throughput and overnight capacity
- Same-day IHC and ISH provides complete patient case management
- Unparalleled onboard capacity of temperature-controlled reagents
- Increased productivity with limited setup and minimal maintenance time

Dako Omnis delivers what pathologists, lab managers and technicians are asking for in terms of time, choice and better patient care.

One supplier. Two choices.

With the addition of Dako Omnis, we can now deliver a unique and flexible combination of comprehensive advanced staining solutions. These solutions can be used independently or together, to help you meet the individual needs of your lab, without compromising on quality and consistency results.

Speak to your local representative to assess which solution addresses the needs of your lab now and in the future.

Dako Omnis is a generation ahead in IHC and ISH. Parallel or batch loading, the choice is yours. With a high throughput and full automation, this is a true walk-away solution. A controlled onboard environment facilitates unattended overnight processing of patient cases.

Autostainer Link 48 is a compact, bench-top, open system that delivers the flexibility required in a research and clinical environment. Adaptable to your individual setup, and helps to maximize productivity by the decoupled pre-treatment and the ability to run either large batches of up to 48 IHC slides, or mini batches.

The Dako FLEX RTU solution

Ensures optimal staining results, slide after slide

Using validated protocols and optimized reagents reduces the risk of false negative or false positive results. A robust, specific and sensitive IHC assay is critical for providing staining results that support an accurate patient diagnosis. The most important element in the qualification of the staining results of clinical samples is accurate selection and staining of control tissue.

Dako protocols are the result of a comprehensive study of numerous different tissue types, tissue thicknesses, protocol step durations, target retrieval methods, antibody dilutions, and pre-analytical variations.

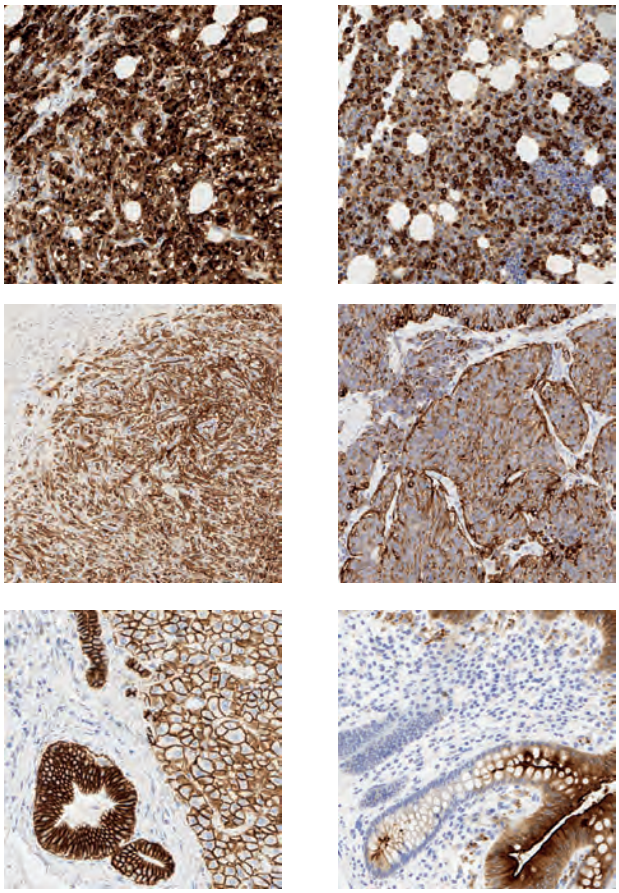
The Dako optimized protocol ensures that every test performance is highly robust, accurate and consistent, compensating for variations in pre-analytical parameters to provide increased certainty slide after slide.

Dako FLEX RTU is developed in collaboration with pathology experts to ensure optimal staining results.

The solution consists of:

- Pre-diluted antibody - FLEX RTU antibody
- Visualization system - EnVision FLEX/FLEX+
- Optimized and validated protocol - the recipe for consistent high-quality results

Find our range of FLEX RTU antibodies for all of our advanced staining platforms at www.dako.com/products.



FLEX RTU antibodies	+	EnVision FLEX visualization system	+	Validated protocols
● Pre-diluted and carefully selected for specificity and sensitivity ● Proven concept since 2007 ● Excellent antibody quality - confirmed by various EQA schemes ● Broad portfolio of IVD antibodies		● Visualization system with low complexity and very high sensitivity ● Visibility of antigen in high and low expressing tissue ● Kit configuration provides – Flexibility – Consistency – Simplicity		● Automated protocols developed for Dako solutions ● Optimized, validated protocols developed in cooperation with leading pathology experts ● Robust protocols compensate for pre-analytical variations

Plug and play on Dako advanced staining platforms

Dako Omnis Solution for IHC and ISH

Dako Omnis meets the challenges of the modern pathology lab. It accommodates an increasing number of diverse, advanced staining methods in an increasingly unpredictable working day. Dako Omnis achieves this by automating any advanced staining method using a simple interface with little hands-on time. Lab staff can deliver consistent IHC and ISH results with minimal training.

Continuous sample loading allows prioritized patient cases to stream seamlessly into an ongoing workflow. With turnaround times of less than four hours for FISH slides, they are ready within the same time frame as IHC slides. Dako Omnis delivers consistent results in IHC and ISH, regardless of operator experience. The system logs operator actions and built-in controls reduce possible human errors.

Dako Omnis gives more time

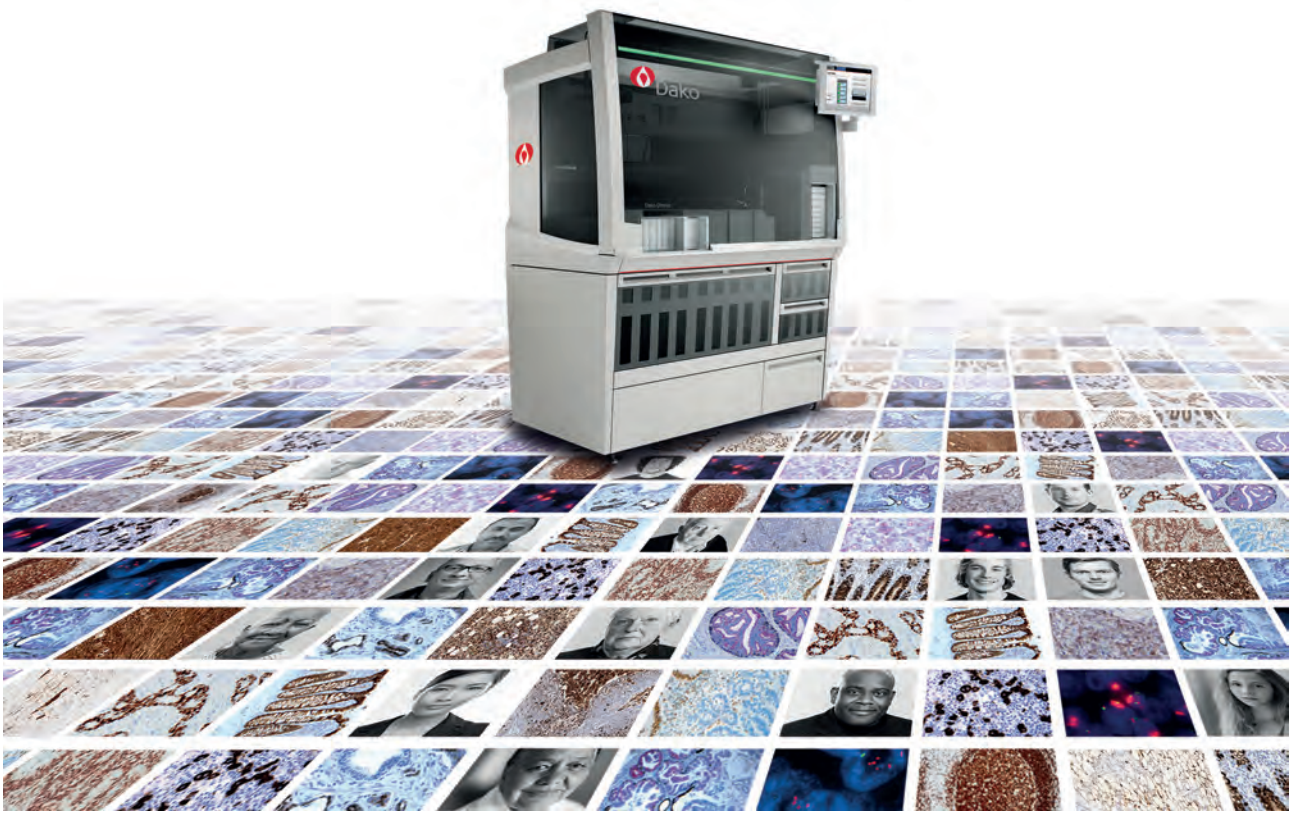
- Process 165 IHC slides in a typical workday, including setting up overnight runs
- Handle the workload with fewer instruments thanks to an unparalleled capacity
- Enable faster diagnosis of whole patient cases with same-day IHC and ISH results
- Minimize hands-on time with automation designed for the clinical laboratory
- Free up lab techs for other tasks thanks to accurate run-time information

Dako Omnis allows greater choice

- Choose continuous loading to match patient cases, or load in batches to utilize full through-put capacity
- Absorb peaks in workload by processing up to 60 slides in unattended overnight runs
- Eliminate operator waiting time by loading slides and/or reagents anytime, also during runs, while keeping an optimal throughput because runs continue uninterrupted during the loading
- Ensure transparency by enabling staff to monitor the slide flow from their workstations

Dako Omnis enables better patient care

- Get results with ease and greater certainty thanks to the FLEX Ready-to-Use reagents and optimized protocols
- Increase lab quality and staffing options because Dako Omnis minimizes the risk of human error
- Facilitate lab accreditation and improve patient safety by automatic tracking and reporting
- Apply patient case workflow while optimizing capacity utilization thanks to the 5-slide racks
- Achieve consistent staining conditions with temperature-controlled and humidity-controlled staining chambers alongside temperature-controlled reagent positions



Dako Omnis

Dako Omnis			
CE	GI100	Advanced staining system	1 unit

IHC and ISH automated on the same platform, coupled with fully optimized and validated protocols, enables a fast turnaround time of patient cases. It supports your lab to deliver consistent quality and optimal results day after day and slide after slide for increased certainty.

Dako Omnis provides:

- Automated IHC and ISH, from deparaffinization to counterstaining
- Parallel or batch processing
- Flexible loading, virtually zero waiting time to add slides or reagents
- Up to 60 slides processed simultaneously
- Capacity for 60 temperature-controlled reagents on board
- Limited setup and little maintenance
- High throughput, including possibility for overnight run
- Full traceability of patient cases through onboard and workstation software
- Intuitive user interface and individual user log in
- LAN seats that display information where needed, including information from the LIS
- Dynamic Gap staining technology that helps ensure consistent, high-quality staining results with very low variation between slides, instruments and days.

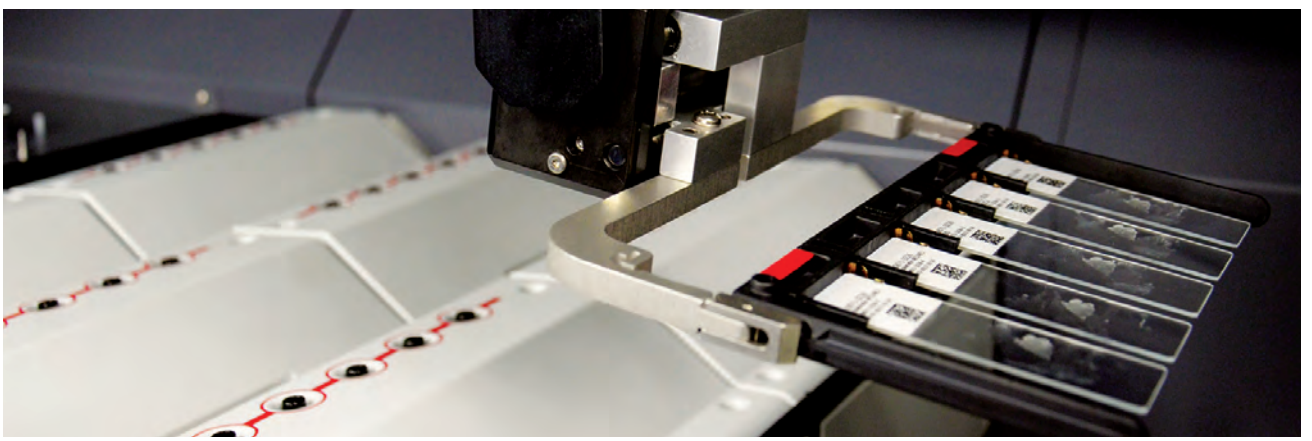
IHC and ISH automated on the same platform
Dako Omnis meets head-on the challenges in the modern pathology lab to accommodate an increasing number of diverse, advanced staining methods in an increasingly unpredictable working day. Dako Omnis achieves this by automating any advanced staining method using the simplest of user interfaces with little hands-on time, so new users can start producing results in minutes.

Compensate for increasing fluctuations in workflow
Process 60 IHC slides completely unattended overnight (or 45 IHC plus 15 ISH). You decide if the slides should be ready as soon as possible or at the start of the next working day.

Batch or continuous flow, the choice is yours. Continuous sample loading allows prioritized patient cases to stream seamlessly into an ongoing workflow. Full flexibility for the unpredictable lab environment.

Monitor and control your staining workflow
Monitor the progress of your run at a glance. Clear visual alerts notify you when user interactions are necessary. Dako Omnis connects to your LIS system. Share, monitor and track slides wherever you are.

Manage increasing slide volumes with limited resources
Load your IHC or ISH slides when convenient and the system informs you which reagents are needed. Once slides are loaded, you are free to perform other tasks. Just load and walk away. With minimal hands-on time, daily setup takes just 15 minutes and little daily maintenance is required. Less time for preparation, faster processing.



Dako Omnis (continued)

Hardware Specifications	
Turn-around time	IHC: 2 hours 30 minutes ISH: 3 hours 40 minutes
Throughput	165 slides can be loaded in a typical workday (including preparation for an overnight run)
Slide capacity	60 slides for IHC or ISH (up to 15 ISH slides)
Reagent capacity	60 reagent vials
Bulk fluid capacity	8 x 3.5 L bottle and 4 x 7 L bottle
Waste capacity	4 x 7 L bottle (non-hazardous) 1 x 7 L bottle (low-hazardous, below limit values)
Dimensions	57.1" W x 31.2" D x 60.4" H (145 cm W x 79.3 cm D x 176.3 cm H)
Weight	1,323 lbs (600 kg) fully loaded
Voltage	120/220-240 VAC
Power consumption	1200 W

Features

Processes

- Fully automated and simultaneous IHC and/or ISH
- Deparaffinization, staining and counterstaining with parallel processing

Operation

- Continuous or batch workflow
- 5-slot racks to optimize capacity utilization and patient-case management
- Reagents and slides can be loaded anytime, also during runs
- Easy-to-use software interface and ready-to-use reagents
- Built-in controls to reduce possible human errors

Staining conditions

- Temperature controlled onboard reagent storage
- Dynamic Gap staining technology
- Temperature and humidity controlled processing environment
- FLEX RTU reagents and protocols for optimal staining results

Connectivity and control

- LAN seats for setup and monitoring from anywhere
- Full integration with Laboratory Information Systems
- 1D and 2D barcodes
- Data logging, reporting and access rights for traceability and accreditation

Learn more about Dako Omnis by visiting www.dako.com/omnis

IHC Ancillaries and Accessories (Dako Omnis)

Clearify™

GC810 3.8 L

Clearify™ is used onboard Dako Omnis to remove paraffin from tissue sections for both IHC and ISH staining in a two-phase dewaxing procedure.

DAB+ Substrate Chromogen System (Dako Omnis)

CE GV825 Onboard mixing 150 tests

EnVision FLEX DAB+ Substrate Chromogen System (Dako Omnis) is intended for use in immunohistochemistry together with Dako Omnis. The working solution is prepared onboard by the Dako Omnis instrument. It is a high sensitivity DAB system suitable for use in combination with the EnVision FLEX visualization system (Codes GV800/GV823). Upon oxidation, DAB forms a brown end-product at the site of the target antigen. The reagent is intended for use on formalin-fixed, paraffin-embedded tissue sections.

Hematoxylin (Dako Omnis)

CE GC808 Ready-to-use 8 x 22.5 mL, 600 tests

Intended for use in immunohistochemistry together with Dako Omnis. The reagent is recommended for counterstaining on formalin-fixed, paraffin-embedded tissue sections providing a clear blue, nuclear staining.

IHC Microscope Slides, FLEX

CE K8020 Coated glass slides 5 x 100 slides

Coated microscope slides for adhesion of formalin-fixed, paraffin-embedded tissue sections for use in immunohistochemistry with Dako EnVision FLEX visualization systems. FLEX IHC Microscope Slides are compatible with, but not limited to, the following Dako instruments: Dako Omnis, Autostainer Link, Dako Autostainer/Autostainer Plus and PT Link.

Mixing Strip, for Dako Omnis

GC107 10-well mixing strip 25 strips

Dako Omnis Mixing Strip is intended for mixing of the chromogen working solution during staining onboard Dako Omnis. Dako Omnis Mixing Strip has ten wells designed to hold chromogen for five slides with minimal dead volume. Wells are covered with a lid to limit spill of reagent during disposal of strips. Dako Omnis Mixing Strip can stand unsupported on a table. Arrows indicate correct insertion on Dako Omnis. Dako Omnis Mixing Strip is single use only and used strips are classified as hazardous waste due to chromogen residuals.

Reagent Vial, Small/Large, for Dako Omnis

GC201 Small vial 25 x 2 mL
GC202 Large vial 25 x 30 mL

Reagent vials designed to allow the use of a user-defined reagent on Dako Omnis. Each single-use bottle is labeled with positive identification technology. User-fillable reagent vial may be filled to a maximum fill volume of approximately 2 mL/30 mL, respectively. The vial closure contains a septum to reduce evaporation of reagent during onboard use in Dako Omnis reagent storage.

Slide Rack, for Dako Omnis

GC101 Slide racks holding 5 slides each 6 racks

Dako Omnis Slide Rack is designed for use on Dako Omnis. The Slide Rack holds the slides with samples to be processed on Dako Omnis.Each Slide Rack can carry up to five slides. Each slide is placed in a positioning groove and fixated by a spring. Dako Omnis is validated with FLEX IHC Microscope Slides and Superfrost Plus Slides. Dako does not recommend the use of other slide types. Dako Omnis Slide Rack is classified as non-hazardous waste, and Slide Rack parts comply with incineration or parts may be dismantled for recycling.

Slide Rack Color Clips, for Dako Omnis

GC104 Blue 25 clips
GC105 Green 25 clips
GC106 Gray 25 clips
GC103 Red 25 clips

The colored clips are attached to the slide rack for visual identification of individual racks. Each Dako Omnis Slide Rack can hold two Dako Omnis Slide Rack Color Clips and the colors available are: blue, green, gray and red. Dako Omnis Slide Racks are supplied with black color clips as default.

Sulfuric Acid, 0.3 M, for Dako Omnis

GC203 10 x 22.5 mL

Sulfuric Acid, 0.3 M is a generic cleaning agent used to remove residue (primarily protein) from various surfaces. It is used on Dako Omnis to automatically clean the Liquid Handling Tip after pipetting of reagents with high protein content, specifically primary antibodies.

Wash Buffer (20x) (Dako Omnis)

CE GC807 Concentrate 20 x 175 mL, 1700 tests

Wash Buffer 20x (Dako Omnis) is intended for use in immunohistochemistry. The product is used as wash buffer for immunohistochemical staining procedures onboard Dako Omnis.

ISH Ancillaries and Accessories (Dako Omnis)

Fluorescence Mounting Medium (Dako Omnis)

CE GM304 Ready-to-use 20 tests, 0.8 mL

Fluorescence Mounting Medium (Dako Omnis) is intended for mounting of formalin-fixed, paraffin-embedded (FFPE) tissue sections after FISH staining performed onboard the Dako Omnis instrument. The mounting medium also contains 500 µg/L DAPI for improved nuclei staining.

ISH Cleaning Solution (Dako Omnis)

CE GC207 Ready-to-use **NEW** 100 tests, 10 mL

ISH Cleaning Solution (Dako Omnis) is an accessory to the Dako Omnis instrument. It is used for cleaning the pipette tip between dispenses of in situ hybridization probes. Washing with ISH Cleaning Solution dissolves ISH probe, allowing remaining probe to be effectively washed away with water. The product is provided in a ready-to-use vial for the Dako Omnis instrument.

ISH Ethanol Solution, 96% (Dako Omnis)

CE GM300 Ready-to-use 20 tests, 14 mL

ISH Ethanol Solution, 96% (Dako Omnis) is intended for use in automated in situ hybridization assays together with the Dako Omnis instrument on formalin-fixed, paraffin-embedded (FFPE) tissue sections. The solution is used in the wash step after target retrieval. The product is provided in a ready-to-use vial for the Dako Omnis instrument.

ISH Lid, for Dako Omnis

GC102 5 lids

Dako Omnis ISH Lid is intended for use in FISH procedures. Each Dako Omnis ISH Lid holds five slides and has five built-in Cover Glasses and one Humidity Pad. The Cover Glasses serve to distribute probe buffer across the staining area and to reduce buffer evaporation. The Humidity Pad with deionized water added serves to increase the humidity inside Dako Omnis ISH Lid to further reduce evaporation. Dako Omnis ISH Lid also provides insulation to maintain proper denaturation temperature.
Dako Omnis ISH Lid is single use only and is classified as non-hazardous waste.

ISH Pepsin (Dako Omnis)

CE GM302 Ready-to-use 20 tests, 7 mL

ISH Pepsin (Dako Omnis) is intended for use in automated in situ hybridization assays together with the Dako Omnis instrument on formalin-fixed, paraffin-embedded (FFPE) tissue sections. The solution is used in the digestion step. The product is provided in a ready-to-use vial for the Dako Omnis instrument.

ISH Pre-Treatment Solution (20x) (Dako Omnis)

CE GM301 Concentrate 175 mL, 20x concentrated

ISH Pre-Treatment Solution (20x) (Dako Omnis) is intended for use in automated in situ hybridization assays together with the Dako Omnis instrument on formalin-fixed, paraffin-embedded (FFPE) tissue sections. The solution is used in the pre-treatment step. An inert green color is added to the buffer for easy identification and user friendliness. The volume is tailored for dilution in one Dako Omnis bulk bottle.

ISH Stringent Wash Buffer (20x) (Dako Omnis)

CE GM303 Concentrate 175 mL, 20x concentrated

ISH Stringent Wash Buffer (20x) (Dako Omnis) is intended for use in automated in situ hybridization assays together with the Dako Omnis instrument on formalin-fixed, paraffin-embedded (FFPE) tissue sections. The solution is used in the post-hybridization step. An inert yellow color is added to the buffer for easy identification and user friendliness. The volume is tailored for dilution in one Dako Omnis bulk bottle.

Mixing Device, for Dako Omnis

GC116 1 unit

Dako Omnis Mixing Device is an accessory to the Dako Omnis instrument. It is designed specifically to support the fluorescence in situ hybridization (FISH) and the chromogenic in situ hybridization (CISH) procedures. The Dako IQISH buffer is extremely viscous, and during storage the reagent phase separates. Hence the Dako IQISH reagents require a particular preparatory processing to thaw and unify the content.
Some Dako ISH reagents are therefore provided in dedicated ISH reagent vials containing a mixing ball, and the Dako Omnis Mixing Device is designed to fit together with these ISH reagent vials.
Dako Omnis Mixing Device contains a magnet that enables the mixing ball to move up and down (110 cycles) inside the vial after 40 minutes thawing of the ISH reagent; thus ensuring a homogenous probe mix prior to application on the Dako Omnis instrument.

Vial with Mixing Ball, 2 mL, for Dako Omnis

GC206 25 vials **NEW** 2 mL

Dako Omnis Vial with Mixing Ball, 2 mL has been designed as an accessory for Dako Omnis and Dako Omnis Mixing Device and is intended for use in ISH procedures using user-provided FISH probes diluted in ethylene carbonate-based hybridization buffer (IQFISH). Dako Omnis Vial with Mixing Ball, 2 mL includes a mixing ball that is used by Dako Omnis Mixing Device to mix the IQFISH hybridization buffer with the user-provided probe. Each package contains 25 vials, 25 caps and 25 mixing balls.

pharmDx Kit (Dako Omnis)

HER2 IQFISH pharmDx (Dako Omnis)

CE GM333 Ready-to-use 20 tests, 1.6 mL

HER2 IQFISH pharmDx (Dako Omnis) is the hybridization probe for the automated direct fluorescence in situ hybridization (FISH) assay onboard Dako Omnis instruments. It consists of a *HER2* and CEN-17 probe mix in IQISH hybridization buffer and is provided in a ready-to-use vial for the Dako Omnis instrument. The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 75 minutes on the Dako Omnis instrument. The short hybridization time results in a turnaround time of less than 4 hours for a complete FISH staining from deparaffinization to mounting.

HER2 IQFISH pharmDx (Dako Omnis) is, together with accessory reagent devices, designed to quantitatively determine *HER2* gene amplification in formalin-fixed, paraffin-embedded (FFPE) breast cancer tissue specimens and FFPE specimens from patients with adenocarcinoma of the stomach including gastroesophageal junction.

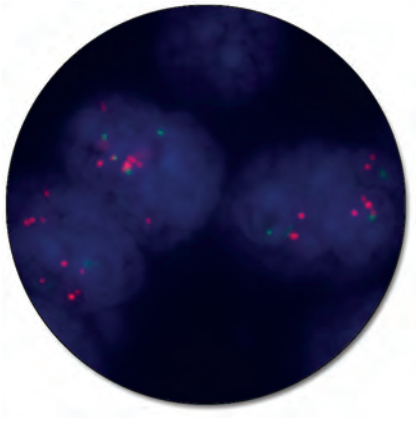
Gene amplification is determined from the ratio between the number of signals from the hybridization of the *HER2* gene probe (red signals) and the number of signals from the hybridization of the CEN-17 reference chromosome 17 probe (green signals).

HER2 IQFISH pharmDx (Dako Omnis) is indicated in adjunction to HercepTest in the assessment of patients for whom Herceptin™ (trastuzumab) treatment is being considered.

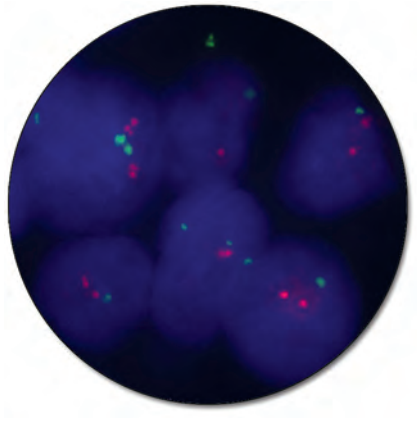
For breast cancer patients, results from *HER2* IQFISH pharmDx (Dako Omnis) are intended for use as an adjunct to the clinicopathologic information currently used for estimating prognosis in stage II, node-positive breast cancer patients.

Accessory reagents to be used together with *HER2* IQFISH pharmDx (Dako Omnis):

Product Name	Code
Dako Omnis ISH Lid	GC102
Dako Omnis Mixing Device	GC116
Fluorescence Mounting Medium (Dako Omnis)	GM304
ISH Ethanol Solution, 96% (Dako Omnis)	GM300
ISH Pepsin (Dako Omnis)	GM302
ISH Pre-Treatment Solution (20x) (Dako Omnis)	GM301
ISH Stringent Wash Buffer (20x) (Dako Omnis)	GM303
ISH Cleaning Solution (Dako Omnis)	GC207



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx (Dako Omnis), Code GM333. Tumor cells show HER2 gene amplification.



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx (Dako Omnis), Code GM333. Cells show HER2 gene non-amplification.

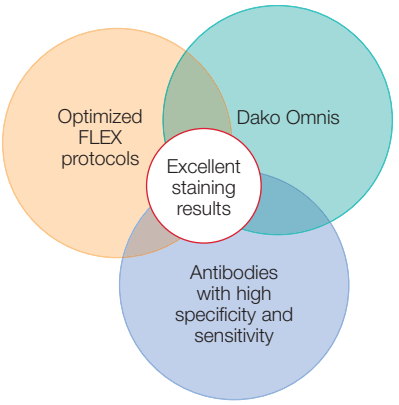
Go to page 143 to read about all our pharmDx products.

Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis)

For Dako Omnis, we offer a dedicated series of high-quality, pre-diluted, ready-to-use (RTU) primary antibodies.

FLEX Ready-to-Use antibodies are pre-diluted primary antibodies specifically developed for automated use while maintaining the high-quality staining performance for which Dako antibodies is known.

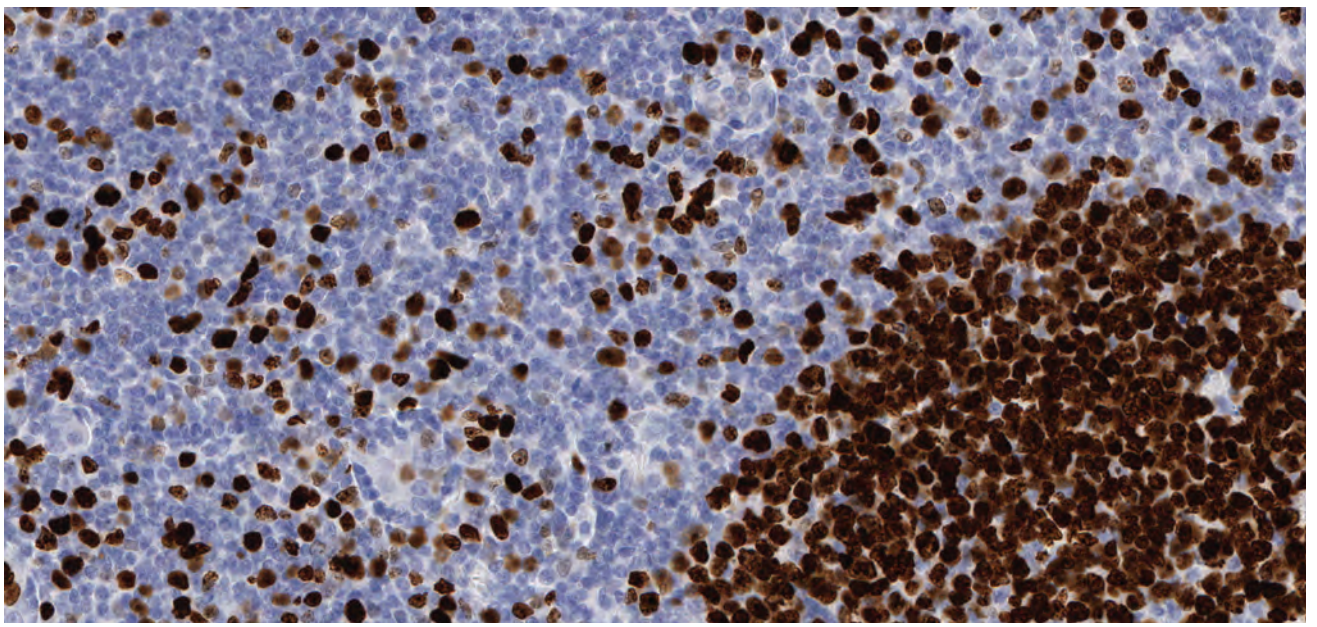
Each FLEX RTU antibody is accompanied by a validated protocol that is optimized to absorb variations related to pre-analytical factors. This enables a reliable staining performance in various tissue types containing both high and low-expression structures. The antibody specificity and protocol have both been evaluated and approved by external pathology experts.



Key Features

- Optimized staining performance of both high and low-expression structures
- Dako Omnis and the dynamic gap staining technology provide consistent and uniform staining with excellent morphology
- Crisp and clear staining with no background
- Optimal laboratory efficiency with RTU antibodies on Dako Omnis

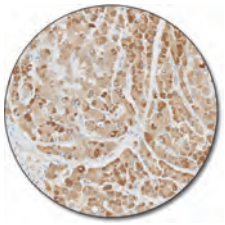
The GA-Series FLEX Ready-to-Use Primary Antibodies listed in this section are packaged in Dako Omnis vials for use on Dako Omnis instruments, and can be used only with the EnVision FLEX system for Dako Omnis.



Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis) (continued)

Polyclonal Rabbit Anti-Human
Alpha-1-Antitrypsin

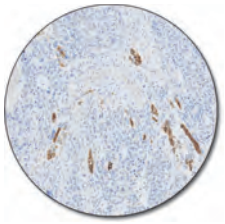
CE GA505 **NEW** 60 tests, 12 mL



A1AT-deficient liver (FFPE) stained with FLEX Anti-Alpha-1-Antitrypsin, Code GA505.

Polyclonal Rabbit Anti-Human
Alpha-1-Fetoprotein

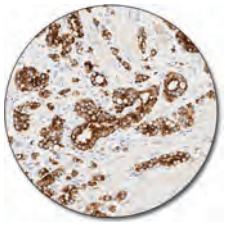
CE GA500 **NEW** 60 tests, 12 mL



Embryonal carcinoma (FFPE) stained with FLEX Anti-Alpha-1-Fetoprotein, Code GA500.

Monoclonal Rabbit Anti-Human
AMACR

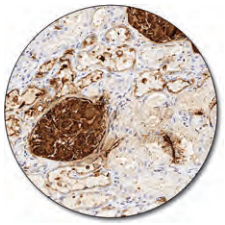
CE GA060 Clone 13H4 60 tests, 12 mL



Prostate adenocarcinoma (FFPE) stained with FLEX Anti-AMACR, Code GA060.

Monoclonal Mouse Anti-Human
Amyloid A

CE GA605 Clone mc1 60 tests, 12 mL



Kidney with amyloidosis (FFPE) stained with FLEX Anti-Amyloid A, Code GA605.

Monoclonal Mouse Anti-Human
B-Cell-Specific Activator Protein

CE GA650 Clone DAK-Pax5 60 tests, 12 mL

Lymph node (FFPE) stained with FLEX Anti-BSAP, Code GA650.

Monoclonal Mouse Anti-Human
BCL6 Protein

CE GA625 Clone PG-B6p 60 tests, 12 mL

Follicular lymphoma (FFPE) stained with FLEX Anti-BCL6, Code GA625.

Monoclonal Mouse Anti-Human
Beta-Catenin

CE GA702 Clone β-Catenin-1 **NEW** 60 tests, 12 mL

Colon adenocarcinoma (FFPE) stained with FLEX Anti-Beta-Catenin, Code GA702.

Monoclonal Mouse Anti-Human
CA 125

CE GA701 Clone M11 60 tests, 12 mL

Ovarian carcinoma (FFPE) stained with FLEX Anti-CA 125, Code GA701.

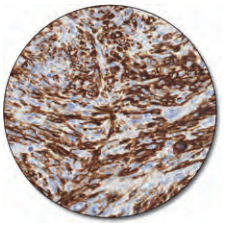
Polyclonal Rabbit Anti-Human
Calcitonin

CE GA515 **NEW** 60 tests, 12 mL

Thyroid medullary carcinoma (FFPE) stained with FLEX Anti-Calcitonin, Code GA515.

Monoclonal Mouse Anti-Human
Caldesmon

CE GA054 Clone h-CD **NEW** 60 tests, 12 mL

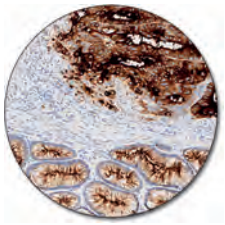


Leiomyosarcoma (FFPE) stained with FLEX Anti-Caldesmon, Code GA054.

Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis) (continued)

Monoclonal Mouse Anti-Human
Carcinoembryonic Antigen (CEA)

CE GA622 Clone II-7 60 tests, 12 mL



Colon adenocarcinoma (FFPE) stained with FLEX Anti-CEA, Code GA622.

Polyclonal Rabbit Anti-Human
Carcinoembryonic Antigen (CEA)

CE GA526 60 tests, 12 mL

Monoclonal Mouse Anti-Human
CD2

CE GA651 Clone AB75 60 tests, 12 mL

Precursor T-lymphoblastic lymphoma (FFPE) stained with FLEX Anti-CD2, Code GA651.

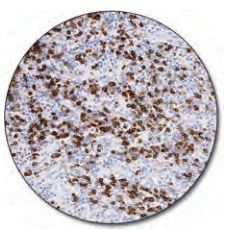
Polyclonal Rabbit Anti-Human
CD3

CE GA503 60 tests, 12 mL

T-cell lymphoma (FFPE) stained with FLEX Anti-CD3, Code GA503.

Monoclonal Mouse Anti-Human
CD7

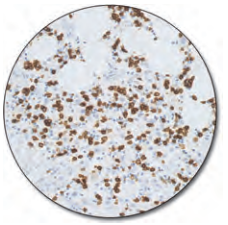
CE GA643 Clone CBC.37 60 tests, 12 mL



Lymphoma (FFPE) stained with FLEX Anti-CD7 Code GA643.

Monoclonal Mouse Anti-Human
CD8

CE GA623 Clone C8/144B **NEW** 60 tests, 12 mL



Angioimmunoblastic T-cell lymphoma (FFPE) stained with FLEX Anti-CD8, Code GA623.

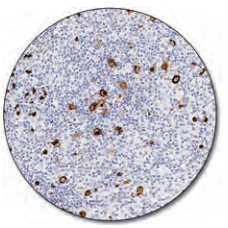
Monoclonal Mouse Anti-Human
CD10

CE GA648 Clone 56C6 60 tests, 12 mL

Lymphoma (FFPE) stained with FLEX Anti-CD10, Code GA648.

Monoclonal Mouse Anti-Human
CD15

CE GA062 Clone Carb-3 60 tests, 12 mL



Hodgkin's Lymphoma (FFPE) stained with FLEX Anti-CD15, Code GA062.

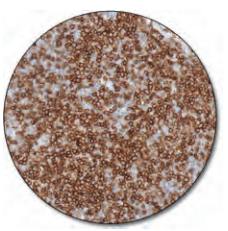
Monoclonal Mouse Anti-Human
CD20cy

CE GA604 Clone L26 60 tests, 12 mL

B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma (FFPE) stained with FLEX Anti-CD20cy, Code GA604.

Monoclonal Mouse Anti-Human
CD23

CE GA781 Clone DAK-CD23 **NEW** 60 tests, 12 mL



Chronic lymphocytic leukemia/small lymphocytic lymphoma (FFPE) stained with FLEX Anti-CD23, Code GA781.

Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis) (continued)

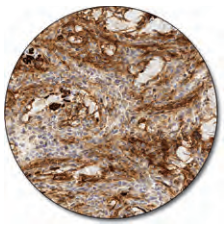
Monoclonal Mouse Anti-Human
CD31, Endothelial Cell

CE GA610 Clone JC70A — 60 tests, 12 mL

Angiosarcoma (FFPE) stained with FLEX Anti-CD31, Code GA610.

Monoclonal Mouse Anti-Human
CD34 Class II

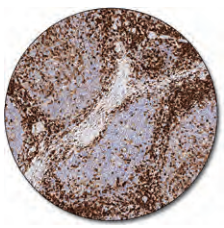
CE GA632 Clone QBEnd 10 — 60 tests, 12 mL



Angiosarcoma (FFPE) stained with FLEX Anti-CD34, Code GA632.

Monoclonal Mouse Anti-Human
CD43

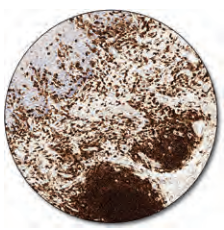
CE GA636 Clone DF-T1 — 60 tests, 12 mL



Tonsil (FFPE) stained with FLEX Anti-CD43, Code GA636.

Monoclonal Mouse Anti-Human
CD45, Leucocyte Common Antigen

CE GA751 Clones 2B11 + PD7/26 — 60 tests, 12 mL



Tonsil (FFPE) stained with FLEX Anti-CD45, Code GA751.

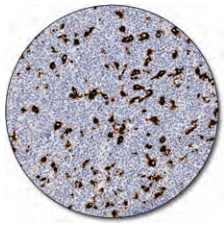
Monoclonal Mouse Anti-Human
CD68

CE GA609 Clone KP1 — 60 tests, 12 mL

Tonsil (FFPE) stained with FLEX Anti-CD68, Code GA609.

Monoclonal Mouse Anti-Human
CD68

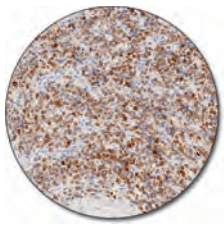
CE GA613 Clone PG-M1 — 60 tests, 12 mL



Tonsil (FFPE) stained with FLEX Anti-CD68, Code GA613.

Monoclonal Mouse Anti-Human
CD79α

CE GA621 Clone JCB117 — 60 tests, 12 mL



Plasmacytoma (FFPE) stained with FLEX Anti-CD79α, Code GA621.

Monoclonal Mouse Anti-Human
CD138

CE GA642 Clone MI15 — 60 tests, 12 mL

High grade myeloma (FFPE) stained with FLEX Anti-CD138, Code GA642.

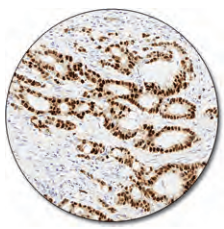
Monoclonal Mouse Anti-Human
CD246, ALK Protein

CE GA641 Clone ALK1 — 60 tests, 12 mL

Anaplastic large cell lymphoma (FFPE) stained with FLEX Anti-CD246, ALK Protein, Code GA641.

Monoclonal Mouse Anti-Human
CDX2

CE GA080 Clone DAK-CDX2 — 60 tests, 12 mL

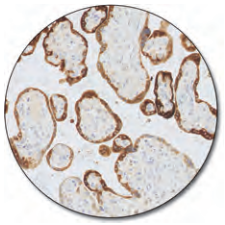


Colon adenocarcinoma (FFPE) stained with FLEX Anti-CDX2, Code GA080.

Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis) (continued)

Polyclonal Rabbit Anti-Human
Chorionic Gonadotropin (hCG)

CE GA508 **NEW** 60 tests, 12 mL



Placenta (FFPE) stained with FLEX Anti-Human Chorionic Gonadotropin, Code GA508.

Monoclonal Rabbit Anti-Human
Cyclin D1

CE GA083 Clone EP12 **NEW** 60 tests, 12 mL

Mantle cell lymphoma (FFPE) stained with FLEX Anti-Cyclin D1, Code GA083.

Monoclonal Mouse Anti-Human
Cytokeratin

CE GA053 Clone AE1/AE3 60 tests, 12 mL

Adenocarcinoma (FFPE) stained with FLEX Anti-Cytokeratin, Code GA053.

Monoclonal Mouse Anti-Human
Cytokeratin 5/6

CE GA780 Clone D5/16 B4 60 tests, 12 mL

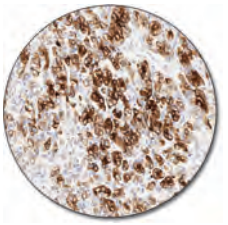
Monoclonal Mouse Anti-Human
Cytokeratin 7

CE GA619 Clone OV-TL 12/30 60 tests, 12 mL

Ductal carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 7, Code GA619.

Monoclonal Mouse Anti-Human
Cytokeratin 18

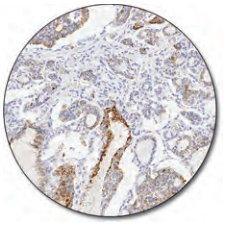
CE GA618 Clone DC 10 60 tests, 12 mL



Renal clear cell carcinoma stained with FLEX Anti-Cytokeratin 18, Code GA618.

Monoclonal Mouse Anti-Human
Cytokeratin 19

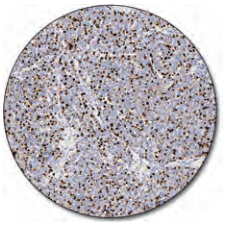
CE GA615 Clone RCK108 60 tests, 12 mL



Thyroid papillary carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 19, Code GA615.

Monoclonal Mouse Anti-Human
Cytokeratin 20

CE GA777 Clone K_s20.8 60 tests, 12 mL



Merkel cell carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 20, Code GA777.

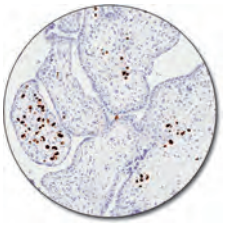
Monoclonal Mouse Anti-Human
Cytokeratin, High Molecular Weight

CE GA051 Clone 34βE12 60 tests, 12 mL

Prostate (FFPE) stained with FLEX Anti-Cytokeratin HMW, Code GA051.

Monoclonal Mouse Anti-
Cytomegalovirus

CE GA752 Clones CCH2 + DDG9 60 tests, 12 mL

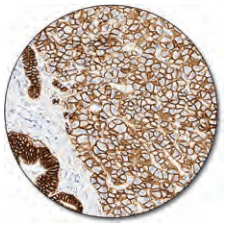


Lung tissue (FFPE) stained with FLEX Anti-Cytomegalovirus, Code GA752.

Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis) (continued)

Monoclonal Mouse Anti-Human
E-Cadherin

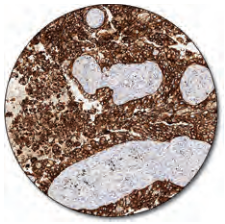
CE GA059 Clone NCH-38 60 tests, 12 mL



Poorly differentiated ductal carcinoma (FFPE) stained with FLEX Anti-E-Cadherin, Code GA059.

Monoclonal Mouse Anti-Human
Epithelial Antigen

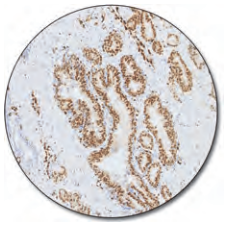
CE GA637 Clone Ber-EP4 60 tests, 12 mL



Adenocarcinoma (FFPE) stained with FLEX Anti-Epithelial Antigen, Code GA637.

Monoclonal Rabbit Anti-Human
ERG (Ets-Related Gene)

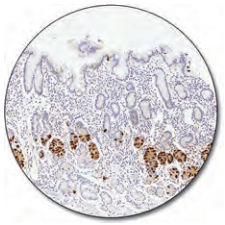
CE GA659 Clone EP111 **NEW** 60 tests, 12 mL



Prostate carcinoma (FFPE) stained with FLEX Anti-ERG, Code GA659.

Polyclonal Rabbit Anti-Human
Gastrin

CE GA519 60 tests, 12 mL



Gastrin-producing tumor (FFPE) stained with FLEX Anti-Gastrin, Code GA519.

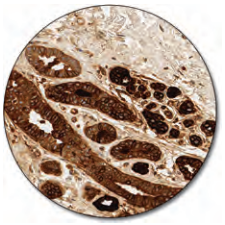
Polyclonal Rabbit Anti-
Glial Fibrillary Acidic Protein

CE GA524 60 tests, 12 mL

Glioblastoma (FFPE) stained with FLEX Anti-GFAP, Code GA524.

Monoclonal Mouse Anti-Human
Gross Cystic Disease Fluid Protein-15

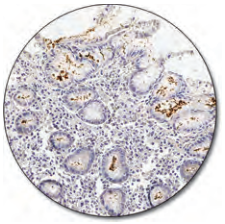
CE GA077 Clone 23A3 60 tests, 12 mL



Breast hyperplasia (FFPE) stained with FLEX Anti-GCDFP-15, Code GA077.

Polyclonal Rabbit Anti-
Helicobacter Pylori

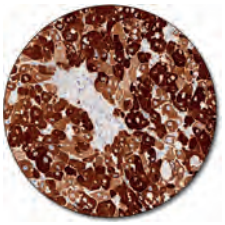
CE GA523 60 tests, 12 mL



Gastric mucosa (FFPE) stained with FLEX Anti-Helicobacter Pylori, Code GA523.

Monoclonal Mouse Anti-Human
Hepatocyte

CE GA624 Clone OCH1E5 60 tests, 12 mL



Hepatocellular carcinoma (FFPE) stained with FLEX Anti-Hepatocyte, Code GA624.

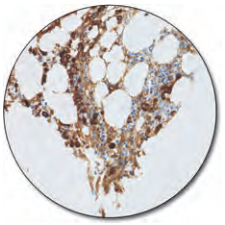
Polyclonal Rabbit Anti-
Herpes Simplex Virus Type 1

CE GA521 60 tests, 12 mL

Brain with herpes simplex virus (FFPE) stained with FLEX Anti-Herpes Simplex Virus Type 1, Code GA521.

Polyclonal Rabbit Anti-Human
IgA

CE GA510 **NEW** 60 tests, 12 mL



Multiple myeloma (FFPE, bone marrow) stained with FLEX Anti-IgA, Code GA510.

Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis) (continued)

Polyclonal Rabbit Anti-Human
IgM

CE GA513 **NEW** 60 tests, 12 mL

Mantle cell lymphoma (FFPE) stained with FLEX Anti-IgM, Code GA513.

Polyclonal Rabbit Anti-Human
Kappa Light Chains

CE GA506 60 tests, 12 mL

Tonsil (FFPE) stained with FLEX Anti-Kappa light chains, Code GA506.

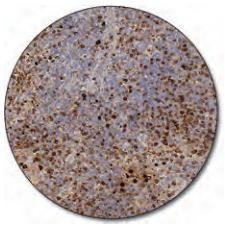
Monoclonal Mouse Anti-Human
Ki-67 Antigen

CE GA626 Clone MIB-1 60 tests, 12 mL

High grade lymphoma (FFPE) stained with FLEX Anti-Ki-67, Code GA626.

Polyclonal Rabbit Anti-Human
Lambda Light Chains

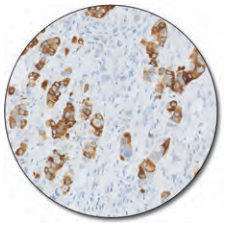
CE GA507 60 tests, 12 mL



Tonsil (FFPE) stained with FLEX Anti-Lambda Light Chains, Code GA507.

Monoclonal Mouse Anti-Human
Mammaglobin

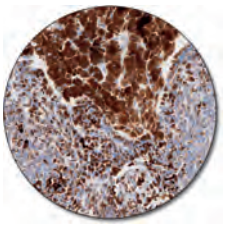
CE GA074 Clone 304-1A5 **NEW** 60 tests, 12 mL



Invasive ductal carcinoma (FFPE) stained with FLEX Anti-Mammaglobin, Code GA074.

Monoclonal Mouse Anti-Human
Melanosome

CE GA052 Clone HMB-45 60 tests, 12 mL



Melanoma (FFPE) stained with FLEX Anti-Melanosome, Code GA052.

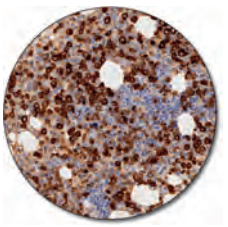
Monoclonal Mouse Anti-Human
MUM1 Protein

CE GA644 Clone MUM1p 60 tests, 12 mL

Diffuse large B-cell lymphoma (FFPE) stained with FLEX Anti-MUM1, Code GA644.

Polyclonal Rabbit Anti-Human
Myeloperoxidase

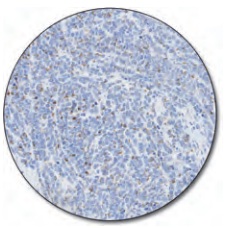
CE GA511 60 tests, 12 mL



Acute myeloid leukemia (FFPE) stained with FLEX Anti-Myeloperoxidase, Code GA511.

Monoclonal Mouse Anti-Human
Neurofilament Protein

CE GA607 Clone 2F11 **NEW** 60 tests, 12 mL



Merkel cell tumor (FFPE) stained with FLEX Anti-Neurofilament Protein, Code GA607.

Monoclonal Mouse Anti-Human
Nucleophosmin

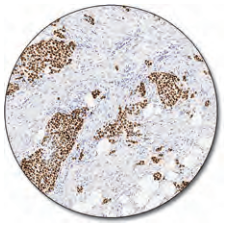
CE GA652 Clone 376 60 tests, 12 mL

Acute myeloid leukemia (AML) (FFPE) stained with FLEX Anti-Nucleophosmin, Code GA652.

Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis) (continued)

Monoclonal Mouse Anti-Human
p53 Protein

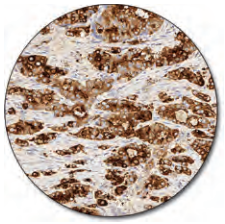
CE GA616 Clone DO-7 60 tests, 12 mL



Invasive transitional cell carcinoma (FFPE) stained with FLEX Anti-p53, Code GA616.

Polyclonal Rabbit Anti-Human
Prostate-Specific Antigen (PSA)

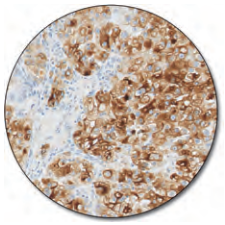
CE GA514 60 tests, 12 mL



Prostate adenocarcinoma (FFPE) stained with FLEX Anti-Prostate Specific Antigen, Code GA514.

Monoclonal Mouse Anti-Human
Renal Cell Carcinoma Marker

CE GA075 Clone SPM314 **NEW** 60 tests, 12 mL



Renal clear cell carcinoma (FFPE) stained with FLEX Anti-Renal Cell Carcinoma Marker, Code GA075.

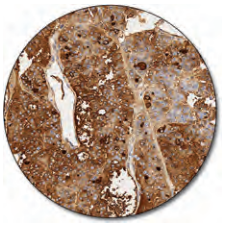
Polyclonal Rabbit Anti-
S100

CE GA504 60 tests, 12 mL

Breast carcinoma (FFPE) stained with FLEX Anti-S100, Code GA504.

Polyclonal Rabbit Anti-Human
Thyroglobulin

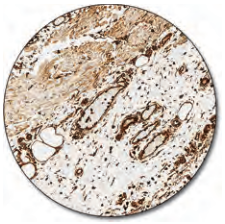
CE GA509 60 tests, 12 mL



Thyroid follicular carcinoma (FFPE) stained with FLEX Anti-Thyroglobulin, Code GA509.

Monoclonal Mouse Anti-
Vimentin

CE GA630 Clone V9 60 tests, 12 mL



Bladder wall (FFPE) stained with FLEX Anti-Vimentin, Code GA630.

Polyclonal Rabbit Anti-Human
Von Willebrand Factor

CE GA527 60 tests, 12 mL

Angiosarcoma (FFPE) stained with FLEX Anti-Von Willebrand Factor, Code GA527.

Negative Controls (FLEX Ready-to-Use) (Dako Omnis)

Universal Negative Control for GA-Series Mouse Primary Antibodies

CE GA750 Ready-to-use 120 tests, 24 mL

Universal negative control for all FLEX ready-to-use **mouse** primary antibodies for use on the Dako Omnis instrument. Packaged in vials for Dako Omnis.

Universal Negative Control for GA-Series Rabbit Primary Antibodies

CE GA600 Ready-to-use 120 tests, 24 mL

Universal negative control for all FLEX ready-to-use **rabbit** primary antibodies for use on the Dako Omnis instrument. Packaged in vials for Dako Omnis.

Visualization Systems (EnVision FLEX) (Dako Omnis)

EnVision FLEX Visualization Systems for Dako Omnis
EnVision FLEX, the well-known Dako visualization system, has been configured into a dedicated system for Dako Omnis. The highly sensitive polymer-based EnVision FLEX system builds upon simple intelligent chemistry that allows for distinct clear staining. The Dynamic Gap staining technology utilized onboard Dako Omnis, the high-quality primary antibodies and the EnVision FLEX system all come together to provide a robust system that produces stains with excellent morphology and diagnostic certainty.

The streamlined kits and optional reagents for Dako Omnis are packaged for your convenience and are easy to order, making the system flexible, versatile and functional.

EnVision FLEX Systems				
	FLEX High pH	FLEX Low pH	FLEX+ High pH	FLEX+ Low pH
Code	GV800 or	GV800 + GV805 or	GV800 + GV821 (Mouse LINKER) or	GV800 + GV805 + GV821 (Mouse LINKER) or
Code	GV823	GV823 + GV805	GV800 + GV809 (Rabbit LINKER)	GV800 + GV805 + GV809 (Rabbit LINKER)

EnVision FLEX, High pH (Dako Omnis)

CE GV800 HRP. Rabbit/Mouse. High pH 600 tests

EnVision FLEX, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Omnis. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer and Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Omnis.

EnVision FLEX Mini Kit, High pH (Dako Omnis)

CE GV823 HRP. Rabbit/Mouse. High pH 150 tests

EnVision FLEX Mini Kit, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Omnis. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer and Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Omnis.

Mouse LINKER (Dako Omnis)

CE GV821 Ready-to-use 75 tests, 22.5 mL

EnVision FLEX+ Mouse LINKER is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX convenience kits (GV800 and GV823) for Dako Omnis to amplify the signal of primary mouse antibodies.

Rabbit LINKER (Dako Omnis)

CE GV809 Ready-to-use 75 tests, 22.5 mL

EnVision FLEX+ Rabbit LINKER is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX convenience kits (GV800 and GV823) for Dako Omnis to amplify the signal of primary rabbit antibodies.

Target Retrieval Solution, High pH (Dako Omnis)

CE GV804 Concentrate 3 x 68 mL, 225 tests

EnVision FLEX Target Retrieval Solution, High pH (Dako Omnis) is an optional EnVision FLEX reagent containing 50x concentrated Tris/EDTA, pH 9 and is compatible with EnVision FLEX convenience kits for Dako Omnis. The volume is optimized for dilution in Dako Omnis bulk bottles.

Target Retrieval Solution, Low pH (Dako Omnis)

CE GV805 Concentrate 3 x 68 mL, 225 tests

EnVision FLEX Target Retrieval Solution, Low pH (Dako Omnis) is an optional EnVision FLEX reagent containing 50x concentrated citrate buffer, pH 6.1 and is compatible with EnVision FLEX convenience kits for Dako Omnis. The volume is optimized for dilution in Dako Omnis bulk bottles.

Autostainer Link Solution for IHC

Automated Link Platforms is the line of instruments with which pathology laboratories will experience an outstanding level of integration that provides high productivity and efficient workflow.

The Autostainer Link 48 staining instrument with the latest release of DakoLink software enables improved productivity in a pathology laboratory by staining 48 slides in less than three hours. When processing slides in parallel, using only one Autostainer Link 48 and one PT Link pre-treatment module, up to 144 slides can be processed in a regular working day, including setting up an overnight run.

With PT Link, pathology laboratories can further maximize productivity by reducing the number of operations needed in the specimen preparation processes of deparaffinization, rehydration and target retrieval. The fact that pre-treatment and staining are decoupled gives high flexibilitly and productivity.

The revolutionary DakoLink software and connectivity options will improve workflow and productivity even further by, among other things, completely eliminating re-labeling steps and repetitive test request entries.

Autostainer Link 48

- Process 48 slides in less than three hours
- Organize your working day to the minute with precise run-time estimation
- Achieve high quality, when staining slides with FLEX RTU primary antibodies and EnVision FLEX/FLEX+ visualization optimized for Autostainer Link 48

PT Link

- Maximize productivity by processing slides in parallel
- Run deparaffinization, target retrieval and dehydration in one step with the 3-in-1 buffer
- Have confidence in your pre-treatment process, as it is controlled every second
- Possibility to track via DakoLink software

DakoLink Software

- Enables a fully integrated pathology solution with Dako instrumentation for Advanced Staining and Histostaining
- Significant tracking improvements with included slide pre-treatment
- Full laboratory connectivity by controlling all slides and slide IDs from one workstation
- Reporting made easy
- Improved laboratory efficiency

Autostainer Link 48

Autostainer Link 48		
CE	AS480 Slide-processing instrument	1 unit

Reliability and innovation come together in Autostainer Link 48. Our trusted immunohistochemistry stainer is united with revolutionary software and connectivity options, delivering an outstanding level of integration that provides high productivity and efficient workflow.

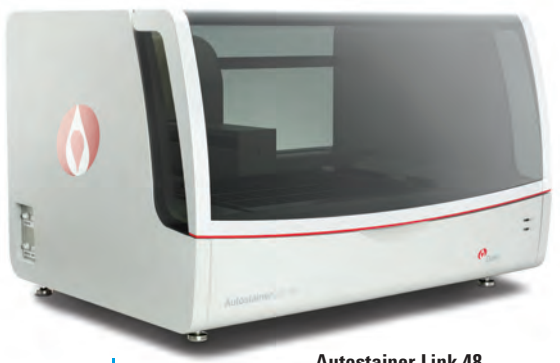
Autostainer Link 48 ensures optimal staining results and offers a high slide and reagent capacity. Save space and centralize slide programming by connecting up to three instruments and three PT Links to one computer.
The DakoLink software has optimized run-time estimation.

Get high quality staining results - on time

- Process 48 slides in less than three hours. This makes it possible to finalize 96 slides during a regular working day with only one Autostainer Link 48 and one PT Link
- Gain up to 45 minutes of your run time compared to our previously fastest Autostainer – Autostainer Plus
- Get the most out of your laboratory time by processing slides in parallel using PT Link and the fastest ever Autostainer Link 48
- Have the freedom to set up your own standards and a possibility to control these

Confidence secured

- Consistent high-quality staining is ensured by validated staining protocols optimized with Dako reagents – FLEX ready-to-use primary antibodies and EnVision FLEX/FLEX+ visualization systems
- Get necessary quality control documentation with DakoLink consolidated reporting. Any kind of customized report is just a few mouse clicks away



Autostainer Link 48

FLEX Ready-to-Use reagents

The Autostainer Link solution

DakoLink software

PT Link

Autostainer Link 48 (continued)

Hardware Specifications	
Dimensions	35" W x 26" D x 27" H (0.89 m W x 0.66 m D x 0.68 m H)
Weight	147 lbs (66.7 kg)
Electrical specifications	120 V: 110/120 V (+/- 10%), 60 Hz (+/- 2 Hz) 220 V: 220/240 V (+/- 10%), 50 Hz (+/- 2 Hz)
Current requirements	3 A at 220 V; 6 A at 110 V
Normal operating temperature	18-26 °C (64-79 °F)
Total slide capacity	48 slides (US and international sizes)
Reagent capacity	42 reagents
Bulk fluid capacity	2 x 10 L; 10 000 slides (at 200 µL dispense volume)
Waste capacity	2 x 10 L; 10 000 slides (at 200 µL dispense volume)
Software requirements	Windows XP SP3, Windows 7 (32 bit) or higher

Ancillaries and Accessories (Autostainer Link)

Hematoxylin (Link)

CE SK308 Ready-to-use 45 mL

This product is optimized for use on Autostainer Link Instruments. This histological staining reagent is suitable for visualization of nuclei in tissue sections and cell preparations. This product does not contain alcohol and is suitable for use with all chromogens commonly used in immunohistochemistry applications.

IHC Microscope Slides, FLEX

CE K8020 Coated glass slides 5 x 100 slides

Coated microscope slides for adhesion of formalin-fixed, paraffin-embedded tissue sections for use in immunohistochemistry with Dako EnVision FLEX visualization systems. FLEX IHC Microscope Slides are compatible with, but not limited to, the following Dako instruments: Dako Omnis, Autostainer Link, Dako Autostainer/Autostainer Plus and PT Link.

Instrument Cleaning Kit (Link)

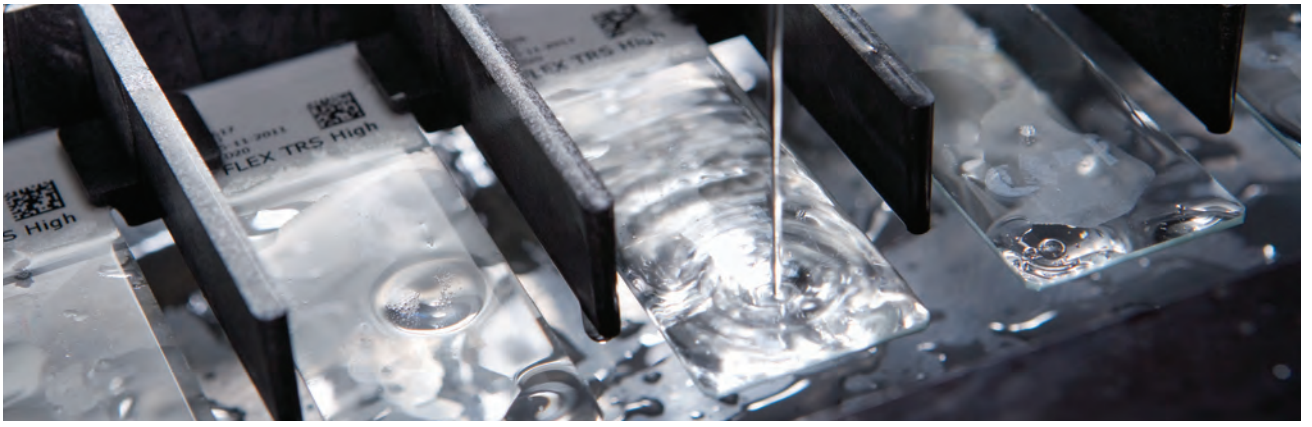
CE SK301 Ready-to-use 18 runs

The cleaning kit provides enough solution for 18 cleaning procedures for Autostainer Link 48. The easy-to-follow instructions for use can be found in Autostainer Link 48 Basic User Guide.

Reagent Bottles, User-Fillable, for Autostainer Link Instruments

CE SK200 25 bottles 5 mL
CE SK201 25 bottles 12 mL
CE SK202 25 bottles 25 mL
CE SK203 25 bottles 50 mL

Reagent bottles designed to allow the use of a user-defined reagent on Autostainer Link instruments. Each single-use bottle is labeled with positive identification technology.



PT Link, Instrument and Accessories

PT Link, Pre-Treatment Module for Tissue Specimens

CE PT200 **NEW** 1 unit

PT Link allows the entire pre-treatment process of deparaffinization, rehydration and epitope retrieval to be combined into a well-documented, 3-in-1 specimen preparation procedure.
With PT Link, pathology laboratories can maximize productivity by reducing the number of operations needed in the pre-treatment process, while saving time by using the same slide rack from pre-treatment all the way through the immunohistochemical staining. Quality control reports from the pre-treatment process can be printed directly from the user-friendly software, while additional confidence in the procedures come from features such as no-boil option and low-fluid warning at 5 mm below the frosted label area of a slide. Options such as delayed start and preheat mode provide the flexibility that is required to make pre-treatment work in parallel with other processes.

DakoLink Software

- Enables a fully integrated pathology solution with Dako instrumentation for advanced staining and histostaining
- Significant tracking improvements by implementing slide pre-treatment
- Full laboratory connectivity by maintaining all slides and slide IDs from one workstation
- Reporting made easy
- Improved laboratory efficiency

Hardware Specifications

Pre-treatment tanks	2
Total slide capacity	48 (each tank holds 24 slides in two Autostainer slide racks)
Dimensions	29.0 cm W x 64.7 cm D x 32.0 cm H (11.4" W x 25.5" D x 12.6" H)
Weight	23 kg (51 lbs)
Electrical specifications	100-120 V, 50 Hz/60 Hz; 220-240 V, 50 Hz/60 Hz
Normal operating temperature	15-30 °C (59-86 °F)
Temperature range for target retrieval mode	65-102 °C (149-216 °F)
Temperature range for preheat mode	30-85 °C (86-185 °F)

PT Link Rinse Station

CE PT109 1 container and lid

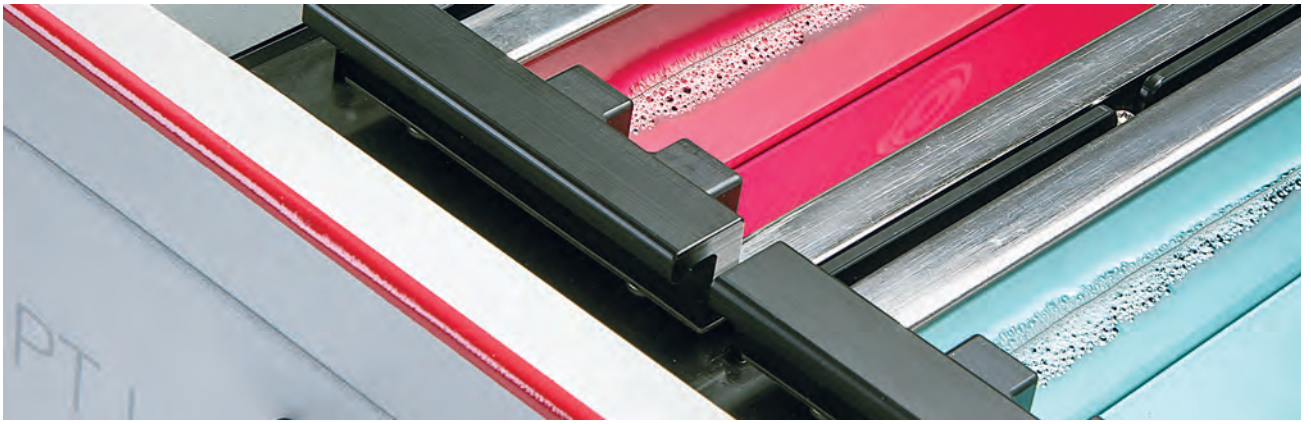
This container is for the working solution of Dako Wash Buffer (10x), Code S3006, used for the rinse step in the 3-in-1 pre-treatment procedure for deparaffinization, rehydration and epitope retrieval. The container should be used in conjunction with PT Link, Code PT100/PT101/PT200. The container holds two Autostainer slide racks.

Tank for PT Link

PT102 Replacement tank for PT100/PT101 1 unit
PT202 Replacement tank for PT200 **NEW** 1 unit

Tank Cover for PT Link

PT103 Spare tank cover for PT100/PT101 1 unit
PT203 Spare tank cover for PT200 **NEW** 1 unit



pharmDx Kits (Autostainer Link)

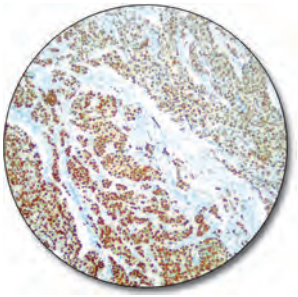
ER/PR pharmDx Kit for Automated Link Platforms

CE SK310 50 tests

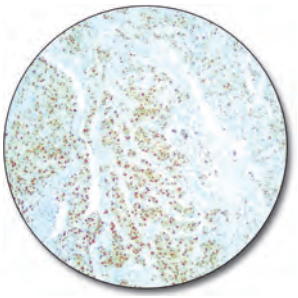
ER/PR pharmDx Kit is a semi-quantitative immunohistochemical kit system to identify estrogen receptor (ER) α protein and progesterone receptor (PR) protein expression in normal and neoplastic tissues. The assay specifically detects the ER α protein as well as the PR protein located in the cell nuclei of ER and PR-expressing cells, respectively. ER/PR pharmDx Kit is indicated as an aid in identifying patients eligible for treatment with anti-hormonal or aromatase inhibitor therapies as well as an aid in the prognosis and management of breast cancer.

The kit utilizes a simple two-step staining procedure and is suitable for formalin-fixed, paraffin-embedded specimens.

The kit provides all the reagents needed to run the ER/PR tests, including control slides to validate each run, and detailed instructions. A scoring guideline is included to facilitate interpretation.



Estrogen receptor (FFPE) stained with ER/PR pharmDx Kit.



Progesterone receptor (FFPE) stained with ER/PR pharmDx Kit.

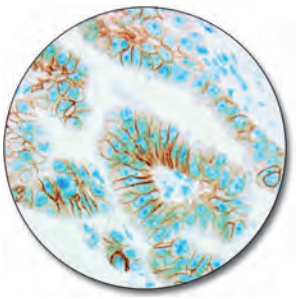
HercepTest for Automated Link Platforms

CE SK001 50 tests

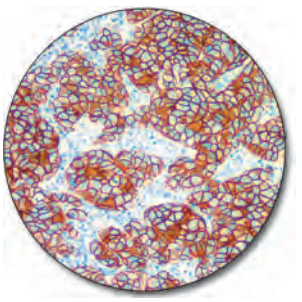
HercepTest is a semi-quantitative immunohistochemical assay for determination of HER2 protein (c-erbB-2 oncoprotein) overexpression in breast cancer tissues routinely processed for histological evaluation and formalin-fixed, paraffin-embedded cancer tissue from patients with adenocarcinoma of the stomach, including the gastroesophageal junction. HercepTest with the indication adenocarcinoma of the stomach, including the gastroesophageal junction, is not available on selected markets. HercepTest specifically demonstrates overexpression of HER2 protein. HercepTest is indicated as an aid in the assessment of patients for whom Herceptin™ (trastuzumab) treatment is being considered.

The kit includes reagents required for the immunohistochemical staining (except wash buffer), control slides representing different expression levels of HER2 protein, and detailed instructions. SK001 has been tailored especially for use on the Autostainer Link instruments.

HercepTest™ and Herceptin™ are trademarks of Genentech, Inc. subject to licenses held by Dako Denmark A/S and F. Hoffmann-La Roche Ltd. HercepTest™ is subject to an exclusive trademark license to Dako Denmark A/S.



Gastric adenocarcinoma (FFPE) stained with HercepTest, 3+ staining.



Breast carcinoma (FFPE) stained with HercepTest, 3+ staining.

Go to page 143 to read about all our pharmDx products.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link)

FLEX Ready-to-Use (RTU) antibodies are pre-diluted primary antibodies specifically developed for automated use while maintaining the high-quality staining performance for which Dako antibodies is known. Each FLEX RTU antibody has been developed with focus on delivering a consistent, high-quality staining performance with just one flexible staining protocol. The staining performance of all antibodies has been defined, tested and approved through collaboration with leading international pathologists.

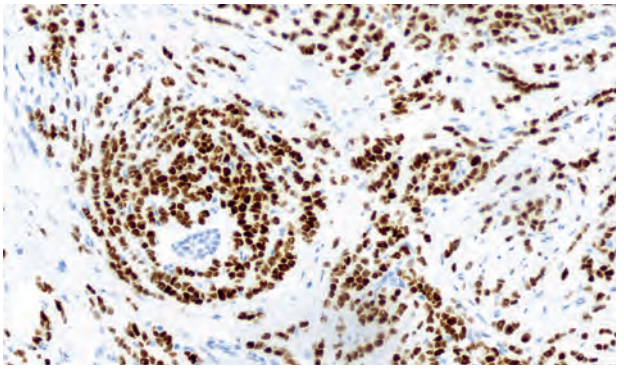
For each FLEX RTU antibody, one protocol is recommended to obtain optimal staining results. The quality of the stainings has been reviewed by a group of expert pathologists. In our Atlas of Stains guide book, we present staining images of high and low-expression structures as well as of recommended control tissues.

FLEX RTU Antibodies

Dako FLEX RTU antibody selection together with the easy-to-use Dako EnVision FLEX/FLEX+ Visualization Systems (1) provides:

- Efficient epitope retrieval
- High-quality antibodies/clones
- Optimal antibody dilution
- Optimal visualization system
- Unique reference document: Dako Atlas of Stains (2)

The IR-Series FLEX Ready-to-Use Primary Antibodies listed in this section are packaged in Universal Reagent Vials for use on Autostainer Link instruments, and can only be used with EnVision FLEX and EnVision FLEX+ Visualization Systems.



High-Quality Antibodies

Empirical data from the quality assurance organization, NordiQC, published on their Web site (3), shows that applying high-quality antibodies/clones brings staining results to a higher level. Clone quality, combined with a high degree of protocol standardization, delivers lower error rates and higher staining quality.

Antibody Name	Clone	Optimal/Good	No. Samples
AMACR	13H4	100 %	5
BCL2 Oncoprotein	124	100 %	14
B-Cell-Specific Activator Protein	DAK-Pax5	95 %	21
CD10	56C6	98 %	47
CD15	CARB-3	96 %	49
CD31	JC70A	97 %	34
CD45, Leucocyte Common Antigen	2B11 + PD 7/26	100 %	31
Cytokeratin 18	DC10	100 %	15
Cytokeratin 20	Ks20.8	100 %	25
Ki-67	MIB-1	97 %	38
MutL Protein Homolog 1	ES05	92 %	27
Podoplanin	D2-40	100 %	15
Progesterone Receptor	Pgr 636	96 %	78

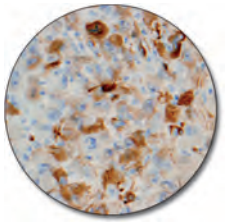
NordiQC Pass Rate Overview (3). In a sample of top antibodies, Dako FLEX RTU antibodies deliver high pass rate.

References:
1. Skaland I, Nordhus M, Gudlaugsson E, Klos J, Kjellevold KH, Janssen EA, et al. Evaluation of 5 different labeled polymer immunohistochemical detection systems. Appl Immunohistochem Mol Morphol 2010;18:90-6.
2. Atlas of Stains - 4th edition, Dako Order No. 00230.
3. Test results from www.nordiqc.org/Assessments.htm.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link) (continued)

Monoclonal Mouse Anti-Human
Actin (Muscle)

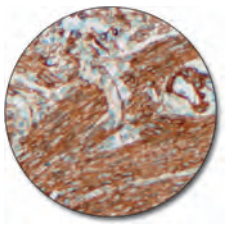
CE IR700 Clone HHF35 60 tests, 12 mL



Rhabdomyosarcoma (FFPE) stained with FLEX Anti-Actin (Muscle), Code IR700/ IS700.

Monoclonal Mouse Anti-Human
Actin (Smooth Muscle)

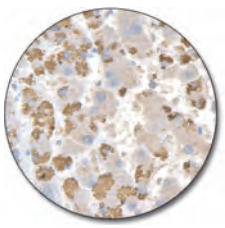
CE IR611 Clone 1A4 60 tests, 12 mL



Uterine leiomyoma (FFPE) stained with FLEX Anti-Actin (Smooth Muscle), Code IR611/ IS611.

Polyclonal Rabbit Anti-Human
Alpha-1-Antitrypsin

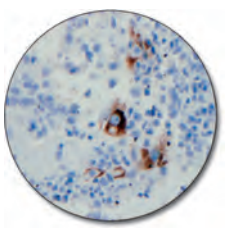
CE IR505 60 tests, 12 mL



A1AT deficient liver (FFPE) stained with FLEX Anti-Alpha-1-Antitrypsin, Code IR505/IS505.

Polyclonal Rabbit Anti-Human
Alpha-1-Fetoprotein

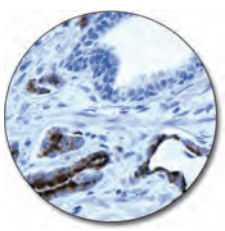
CE IR500 60 tests, 12 mL



Embryonal carcinoma (FFPE) stained with FLEX Anti-Alpha-1-Fetoprotein, Code IR500/ IS500.

Monoclonal Rabbit Anti-Human
AMACR

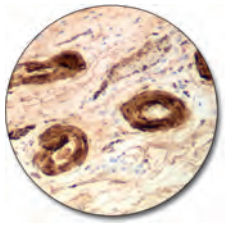
CE IR060 Clone 13H4 60 tests, 12 mL



Prostate adenocarcinoma (FFPE) stained with FLEX Anti-AMACR, Code IR060/IS060.

Monoclonal Mouse Anti-Human
Amyloid A

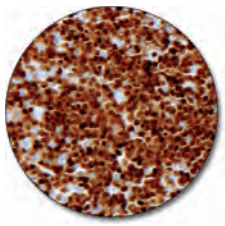
CE IR605 Clone mc1 60 tests, 12 mL



Appendix with amyloidosis (FFPE) stained with FLEX Anti-Amyloid A, Code IR605/ IS605.

Monoclonal Mouse Anti-Human
B-Cell-Specific Activator Protein

CE IR650 Clone DAK-Pax5 60 tests, 12 mL



B-cell chronic lymphatic leukemia (FFPE) stained with FLEX Anti-BSAP, Code IR650/ IS650.

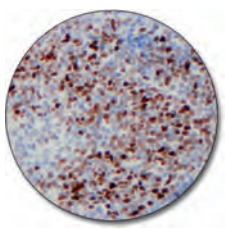
Monoclonal Mouse Anti-Human
BCL2 Oncoprotein

CE IR614 Clone 124 60 tests, 12 mL

Follicular lymphoma (FFPE) stained with FLEX Anti-BCL2 Oncoprotein, Code IR614/ IS614.

Monoclonal Mouse Anti-Human
BCL6 Protein

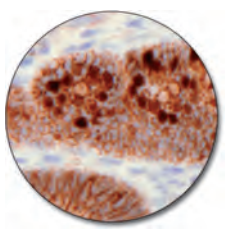
CE IR625 Clone PG-B6p 60 tests, 12 mL



Follicular lymphoma (FFPE) stained with FLEX Anti-BCL6 Protein, Code IR625/IS625.

Monoclonal Mouse Anti-Human
Beta-Catenin

CE IR702 Clone β-Catenin-1 60 tests, 12 mL

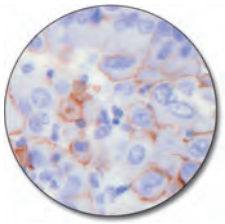


Colon adenoma (FFPE) stained with FLEX Anti-Beta-Catenin, Code IR702/IS702.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link) (continued)

Monoclonal Mouse Anti-Human
CA 125

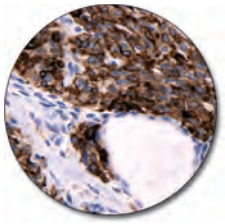
CE IR701 Clone M11 60 tests, 12 mL



Mesothelioma (FFPE) stained with FLEX Anti-CA 125, Code IR701/IS701.

Polyclonal Rabbit Anti-Human
Calcitonin

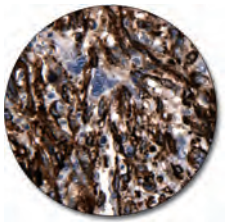
CE IR515 60 tests, 12 mL



Thyroid medullary carcinoma (FFPE) stained with FLEX Anti-Calcitonin, Code IR515/ IS515.

Monoclonal Mouse Anti-Human
Caldesmon

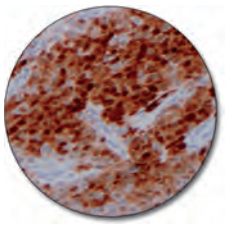
CE IR054 Clone h-CD 60 tests, 12 mL



Leiomyosarcoma (FFPE) stained with FLEX Anti-Caldesmon, Code IR054/IS054.

Monoclonal Mouse Anti-Human
Calretinin

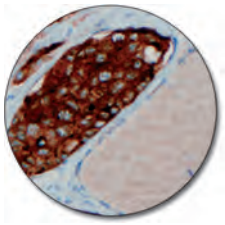
CE IR627 Clone DAK-Calret 1 60 tests, 12 mL



Granulosa cell tumor (FFPE) stained with FLEX Anti-Calretinin, Code IR627/IS627.

Monoclonal Mouse Anti-Human
Carcinoembryonic Antigen (CEA)

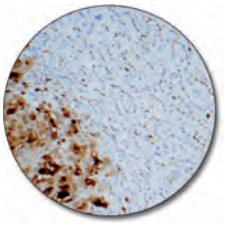
CE IR622 Clone II-7 60 tests, 12 mL



Medullary carcinoma (FFPE) stained with FLEX Anti-CEA, Code IR622/IS622.

Polyclonal Rabbit Anti-Human
Carcinoembryonic Antigen (CEA)

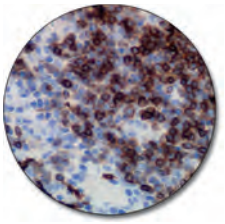
CE IR526 60 tests, 12 mL



Secondary adenocarcinoma (FFPE) stained with FLEX Anti-CEA, Code IR526/IS526.

Monoclonal Mouse Anti-Human
CD1a

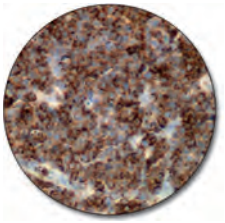
CE IR069 Clone 010 60 tests, 12 mL



Thymoma (FFPE) stained with FLEX Anti-CD1a, Code IR069/IS069.

Monoclonal Mouse Anti-Human
CD2

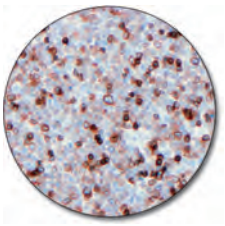
CE IR651 Clone AB75 60 tests, 12 mL



Precursor T-lymphoblastic lymphoma (FFPE) stained with FLEX Anti-CD2, Code IR651/ IS651.

Polyclonal Rabbit Anti-Human
CD3

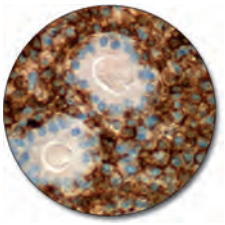
CE IR503 60 tests, 12 mL



Precursor T-lymphoblastic lymphoma (FFPE) stained with FLEX Anti-CD3, Code IR503/ IS503.

Monoclonal Mouse Anti-Human
CD4

CE IR649 Clone 4B12 60 tests, 12 mL



Anaplastic large cell lymphoma (FFPE) stained wit FLEX Anti-CD4, Code IR649/ IS649.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link) (continued)

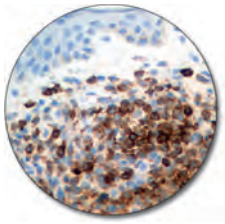
Monoclonal Mouse Anti-Human
CD5

CE IR082 Clone 4C7 60 tests, 12 mL

Mantle cell lymphoma (FFPE) stained with FLEX Anti-CD5, Code IR082/IS082.

Monoclonal Mouse Anti-Human
CD7

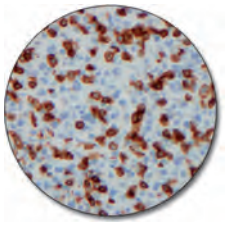
CE IR643 Clone CBC.37 60 tests, 12 mL



Peripheral T-cell lymphoma (FFPE) stained with FLEX Anti-CD7, Code IR643/IS643.

Monoclonal Mouse Anti-Human
CD8

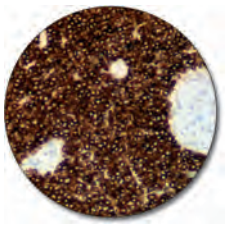
CE IR623 Clone C8/144B 60 tests, 12 mL



Peripheral T-cell lymphoma (FFPE) stained with FLEX Anti-CD8, Code IR623/IS623.

Monoclonal Mouse Anti-Human
CD10

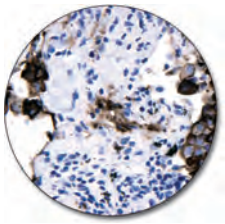
CE IR648 Clone 56C6 60 tests, 12 mL



Precursor B-lymphoblastic lymphoma (FFPE) stained with FLEX Anti-CD10, Code IR648/IS648.

Monoclonal Mouse Anti-Human
CD15

CE IR062 Clone Carb-3 60 tests, 12 mL



Lung adenocarcinoma (FFPE) stained with FLEX Anti-CD15, Code IR062/IS062.

Monoclonal Mouse Anti-Human
CD19

CE IR656 Clone LE-CD19 60 tests, 12 mL

B-cell chronic lymphatic leukemia (FFPE) stained with FLEX Anti-CD19, Code IR656/IS656.

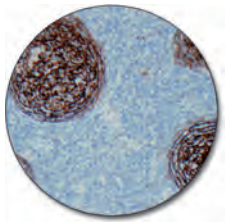
Monoclonal Mouse Anti-Human
CD20cy

CE IR604 Clone L26 60 tests, 12 mL

Mantle cell lymphoma (FFPE) stained with FLEX Anti-CD20cy, Code IR604/IS604.

Monoclonal Mouse Anti-Human
CD21

CE IR608 Clone 1F8 60 tests, 12 mL



Follicular lymphoma (FFPE) stained with FLEX Anti-CD21, Code IR608/IS608.

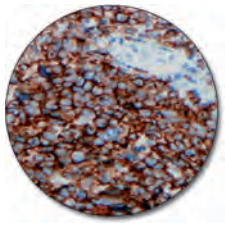
Monoclonal Mouse Anti-Human
CD23

CE IR781 Clone DAK-CD23 60 tests, 12 mL

B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma (FFPE) stained with FLEX Anti-CD23, Clone DAK-CD23, Code IR781/IS781.

Monoclonal Mouse Anti-Human
CD30

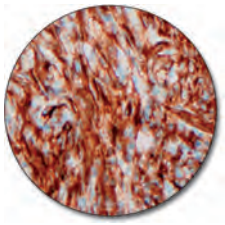
CE IR602 Clone Ber-H2 60 tests, 12 mL



Anaplastic large cell lymphoma (FFPE) stained with FLEX Anti-CD30, Code IR602/IS602.

Monoclonal Mouse Anti-Human
CD31, Endothelial Cell

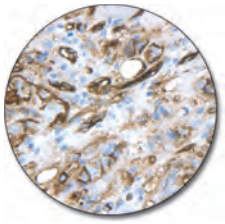
CE IR610 Clone JC70A 60 tests, 12 mL



Kaposi sarcoma (FFPE) stained with FLEX Anti-CD31, Code IR610/IS610.

Monoclonal Mouse Anti-Human
CD34 Class II

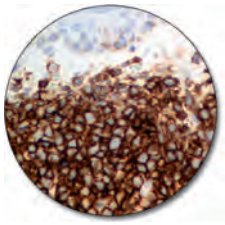
CE IR632 Clone QBEnd 10 60 tests, 12 mL



Angiosarcoma (FFPE) stained with FLEX Anti-CD34 Class II, Code IR632/IS632.

Monoclonal Mouse Anti-Human
CD43

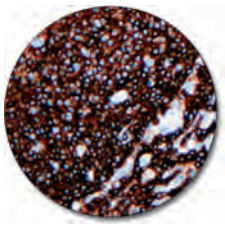
CE IR636 Clone DF-T1 60 tests, 12 mL



Peripheral B-cell lymphoma (FFPE) stained with FLEX Anti-CD43, Code IR636/IS636.

Monoclonal Mouse Anti-Human
CD45, Leucocyte Common Antigen

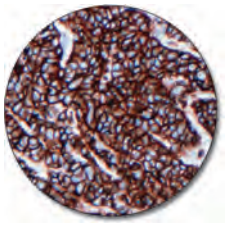
CE IR751 Clones 2B11 + PD7/26 60 tests, 12 mL



B-cell chronic lymphatic leukemia (FFPE) stained with FLEX Anti-CD45, Code IR751/IS751.

Monoclonal Mouse Anti-Human
CD56

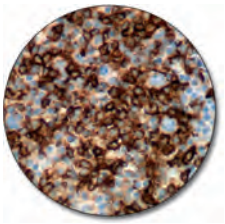
CE IR628 Clone 123C3 60 tests, 12 mL



Small cell carcinoma (FFPE) stained with FLEX Anti-CD56, Code IR628/IS628.

Monoclonal Mouse Anti-Human
CD57

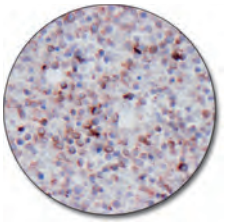
CE IR647 Clone TB01 60 tests, 12 mL



Hodgkin lymphoma (LP subtype) (FFPE) stained with FLEX Anti-CD57, Code IR647/IS647.

Monoclonal Mouse Anti-Human
CD68

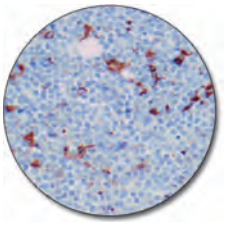
CE IR609 Clone KP1 60 tests, 12 mL



Acute myeloid leukemia (FAB Type M1) (FFPE) stained with FLEX Anti-CD68, Code IR609/IS609.

Monoclonal Mouse Anti-Human
CD68

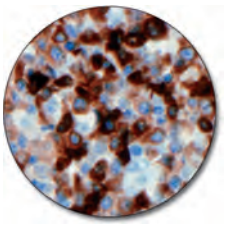
CE IR613 Clone PG-M1 60 tests, 12 mL



Acute myeloid leukemia (FAB Type M1) (FFPE) stained with FLEX Anti-CD68, Code IR613/IS613.

Monoclonal Mouse Anti-Human
CD79α

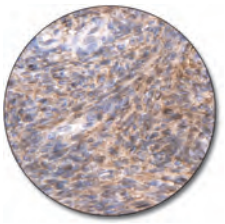
CE IR621 Clone JCB117 60 tests, 12 mL



Plasmacytoma (FFPE) stained with FLEX Anti-CD79α, Code IR621/IS621.

Monoclonal Mouse Anti-Human
CD99, MIC2 Gene Products, Ewing's Sarcoma Marker

CE IR057 Clone 12E7 60 tests, 12 mL

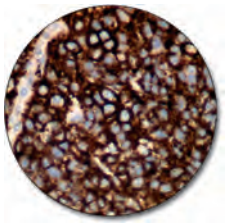


Granulosa cell tumor (FFPE) stained with FLEX Anti-CD99, Code IR057/IS057.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link) (continued)

Monoclonal Mouse Anti-Human
CD138

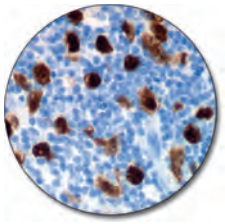
CE IR642 Clone MI15 60 tests, 12 mL



Myeloma (FFPE) stained with FLEX Anti-CD138, Code IR642/IS642.

Monoclonal Mouse Anti-Human
CD246, ALK Protein

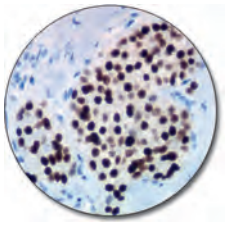
CE IR641 Clone ALK1 60 tests, 12 mL



Anaplastic large cell lymphoma (FFPE) stained with FLEX Anti-CD246, ALK Protein, Code IR641/IS641.

Monoclonal Mouse Anti-Human
CDX2

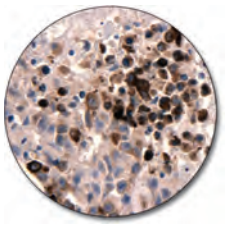
CE IR080 Clone DAK-CDX2 60 tests, 12 mL



Carcinoids (FFPE) stained with FLEX Anti-CDX2, Code IR080/IS080.

Polyclonal Rabbit Anti-Human
Chorionic Gonadotropin (hCG)

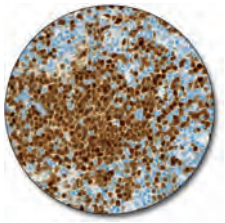
CE IR508 60 tests, 12 mL



Seminoma (FFPE) stained with FLEX Anti-hCG, Code IR508/IS508.

Monoclonal Rabbit Anti-Human
Cyclin D1

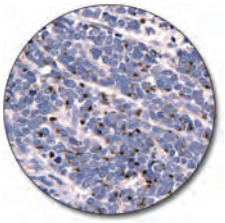
CE IR083 Clone EP12 60 tests, 12 mL



Mantle cell lymphoma (FFPE) stained with FLEX Anti-Cyclin D1, Code IR083/IS083.

Monoclonal Mouse Anti-Human
Cytokeratin

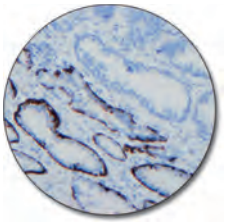
CE IR053 Clone AE1/AE3 60 tests, 12 mL



Merkel cell tumor (FFPE) stained with FLEX Anti-Cytokeratin, Code IR053/IS053.

Monoclonal Mouse Anti-Human
Cytokeratin 5/6

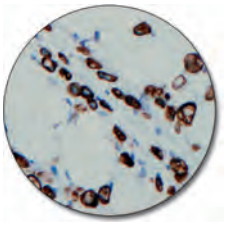
CE IR780 Clone D5/16 B4 60 tests, 12 mL



Prostate hyperplasia and carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 5/6, Code IR780/IS780.

Monoclonal Mouse Anti-Human
Cytokeratin 7

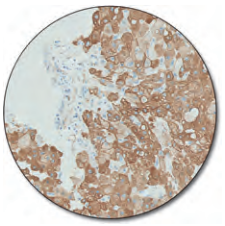
CE IR619 Clone OV-TL 12/30 60 tests, 12 mL



Breast lobular (FFPE) stained with FLEX Anti-Cytokeratin 7, Code IR619/IS619.

Monoclonal Rabbit Anti-Human
Cytokeratin 8/18

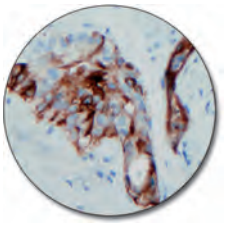
CE IR094 Clone EP17/EP30 60 tests, 12 mL



Hepatocellular carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 8/18, Code IR094.

Monoclonal Mouse Anti-
Cytokeratin 17

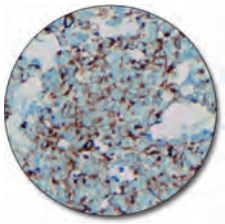
CE IR620 Clone E3 60 tests, 12 mL



Pancreatic adenocarcinoma (FFPE) stained with FLEX Anti-Cytokeratin 17, Code IR620/IS620.

Monoclonal Mouse Anti-Human
Cytokeratin 18

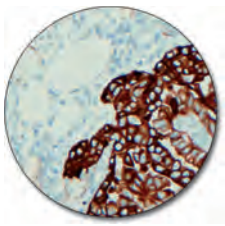
CE IR618 Clone DC 10 60 tests, 12 mL



Merkel cell carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 18, Code IR618/ IS618.

Monoclonal Mouse Anti-Human
Cytokeratin 19

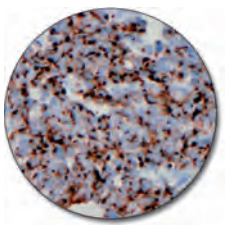
CE IR615 Clone RCK108 60 tests, 12 mL



Thyroid papillary carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 19, Code IR615/ IS615.

Monoclonal Mouse Anti-Human
Cytokeratin 20

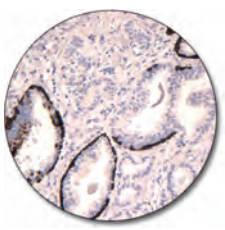
CE IR777 Clone K_s20.8 60 tests, 12 mL



Merkel cell carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 20, Code IR777/ IS777.

Monoclonal Mouse Anti-Human
Cytokeratin, High Molecular Weight

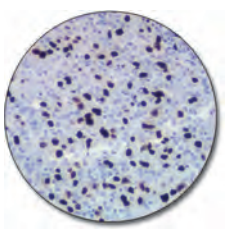
CE IR051 Clone 34βE12 60 tests, 12 mL



Prostate adenocarcinoma (FFPE) stained with FLEX Anti-Cytokeratin, High Molecular Weight, Code IR051/IS051.

Monoclonal Mouse Anti-
Cytomegalovirus

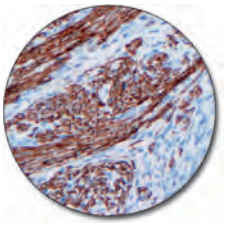
CE IR752 Clones CCH2 + DDG9 60 tests, 12 mL



Lung tissue (FFPE) stained with FLEX Anti-Cytomegalovirus, Code IR752/IS752.

Monoclonal Mouse Anti-Human
Desmin

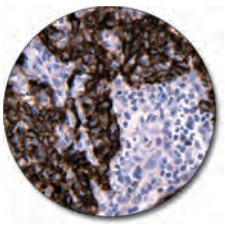
CE IR606 Clone D33 60 tests, 12 mL



Uterine leiomyoma (FFPE) stained with FLEX Anti-Desmin, Code IR606/IS606.

Monoclonal Mouse Anti-Human
E-Cadherin

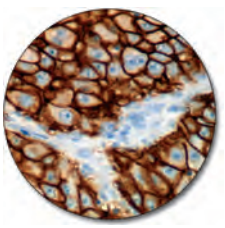
CE IR059 Clone NCH-38 60 tests, 12 mL



Breast ductal carcinoma (FFPE) stained with FLEX Anti-E-Cadherin, Code IR059/IS059.

Monoclonal Mouse Anti-Human
Epithelial Antigen

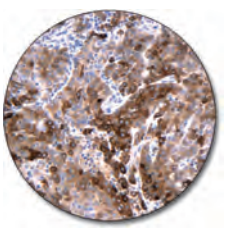
CE IR637 Clone Ber-EP4 60 tests, 12 mL



Lung adenocarcinoma (FFPE) stained with FLEX Anti-Epithelial Antigen, Code IR637/ IS637.

Monoclonal Mouse Anti-Human
Epithelial Membrane Antigen (EMA)

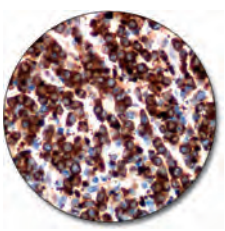
CE IR629 Clone E29 60 tests, 12 mL



Mesothelioma (FFPE) stained with FLEX Anti-EMA, Code IR629/IS629.

Monoclonal Mouse Anti-
Epstein-Barr Virus, LMP

CE IR753 Clones CS.1-4 60 tests, 12 mL



Burkitt lymphoma (FFPE) stained with FLEX Anti-Epstein-Barr Virus, LMP, Code IR753/ IS753.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link) (continued)

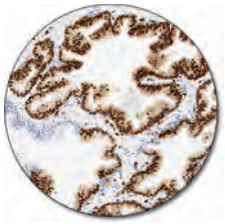
Monoclonal Mouse Anti-Human
ERCC1

CE IR091 Clone 4F9 60 tests, 12 mL

Breast carcinoma (FFPE) stained with FLEX Anti-ERCC1, Code IR091.

Monoclonal Rabbit Anti-Human
ERG (Ets-Related Gene)

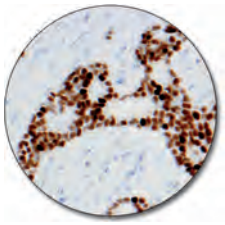
CE IR659 Clone EP111 60 tests, 12 mL



Prostate adenocarcinoma (FFPE) stained with FLEX Anti-ERG, Code IR659.

Monoclonal Mouse Anti-Human
Estrogen Receptor α

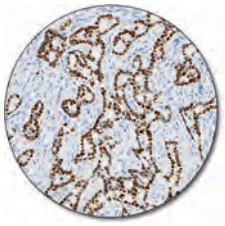
CE IR657 Clone 1D5 60 tests, 12 mL



Breast ductal carcinoma (FFPE) stained with FLEX Anti-Estrogen Receptor α, Code IR657/IS657.

Monoclonal Rabbit Anti-Human
Estrogen Receptor α

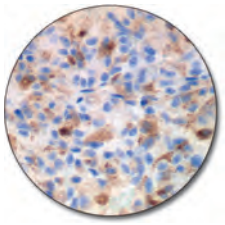
CE IR084 Clone EP1 60 tests, 12 mL



Breast tissue (FFPE) stained with FLEX Anti-Estrogen Receptor α, Clone EP1.

Polyclonal Rabbit Anti-Human
Gastrin

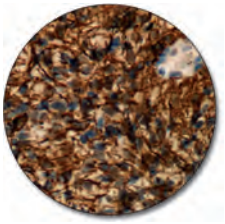
CE IR519 60 tests, 12 mL



Gastrin-producing tumor spread to the liver (FFPE) stained with FLEX Anti-Gastrin, Code IR519/IS519.

Polyclonal Rabbit Anti-
Glial Fibrillary Acidic Protein

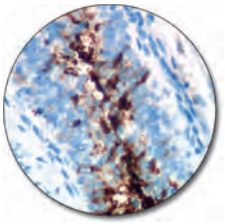
CE IR524 60 tests, 12 mL



Glioblastoma (FFPE) stained with FLEX Anti-GFAP, Code IR524/IS524.

Monoclonal Mouse Anti-Human
Gross Cystic Disease Fluid Protein-15

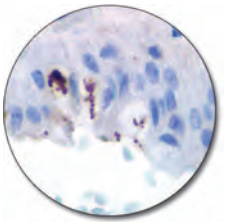
CE IR077 Clone 23A3 60 tests, 12 mL



Breast hyperplasia (FFPE) stained with FLEX Anti-GCDFP-15, Code IR077/IS077.

Polyclonal Rabbit Anti-
Helicobacter Pylori

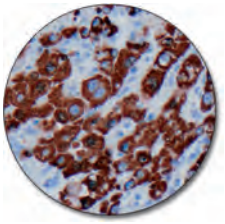
CE IR523 60 tests, 12 mL



Gastric mucosa (FFPE) stained with FLEX Anti-Helicobacter Pylori, Code IR523/IS523.

Monoclonal Mouse Anti-Human
Hepatocyte

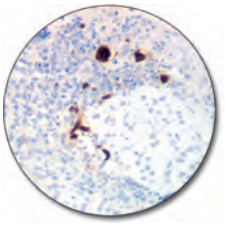
CE IR624 Clone OCH1E5 60 tests, 12 mL



Hepatocellular carcinoma (FFPE) stained with FLEX Anti-Hepatocyte, Code IR624/IS624.

Polyclonal Rabbit Anti-
Herpes Simplex Virus Type 1

CE IR521 60 tests, 12 mL

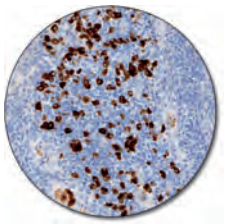


Placenta (FFPE) stained with FLEX Anti-Herpes Simplex Virus Type 1, Code IR521/IS521.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link) (continued)

Polyclonal Rabbit Anti-Human
IgA

CE IR510 60 tests, 12 mL



Tonsil (FFPE) stained with FLEX Anti-IgA, Code IR510/IS510.

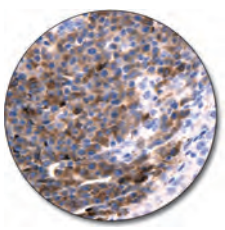
Polyclonal Rabbit Anti-Human
IgD

CE IR517 60 tests, 12 mL

Splenic marginal zone lymphoma (FFPE) stained with FLEX Anti-IgD, Code IR517/IS517.

Polyclonal Rabbit Anti-Human
IgG

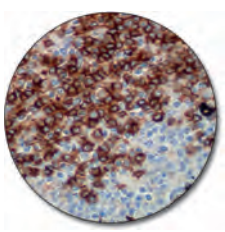
CE IR512 60 tests, 12 mL



Plasmacytoma IgG subtype (FFPE) stained with FLEX Anti-IgG, Code IR512/IS512.

Polyclonal Rabbit Anti-Human
IgM

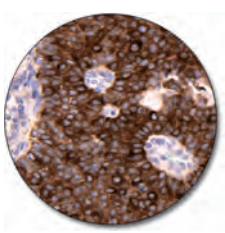
CE IR513 60 tests, 12 mL



Chronic lymphocytic leukemia IgM subtype (FFPE) stained with FLEX Anti-IgM, Code IR513/IS513.

Monoclonal Mouse Anti-Human
Inhibin α

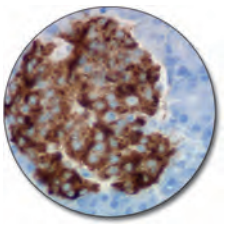
CE IR058 Clone R1 60 tests, 12 mL



Granulosa cell tumor (FFPE) stained with FLEX Anti-Inhibin α, Code IR058/IS058.

Polyclonal Guinea Pig Anti-
Insulin

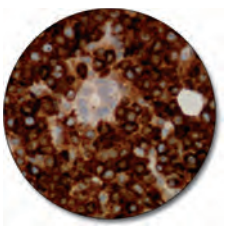
CE IR002 60 tests, 12 mL



Pancreas (FFPE) stained with FLEX Anti-Insulin, Code IR002/IS002.

Polyclonal Rabbit Anti-Human
Kappa Light Chains

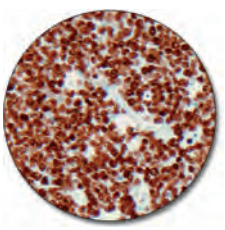
CE IR506 60 tests, 12 mL



Plasmacytoma (FFPE) stained with FLEX Anti-Kappa Light Chains, Code IR506/IS506.

Monoclonal Mouse Anti-Human
Ki-67 Antigen

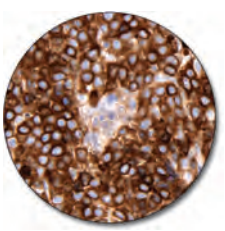
CE IR626 Clone MIB-1 60 tests, 12 mL



Burkitt lymphoma (FFPE) stained with FLEX Anti-Ki-67 Antigen, Code IR626/IS626.

Polyclonal Rabbit Anti-Human
Lambda Light Chains

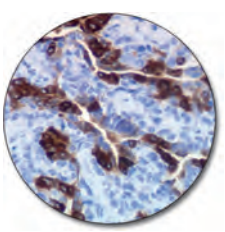
CE IR507 60 tests, 12 mL



Plasmacytoma (FFPE) stained with FLEX Anti-Lambda Light Chains, Code IR507/IS507.

Monoclonal Mouse Anti-Human
Mammaglobin

CE IR074 Clone 304-1A5 60 tests, 12 mL

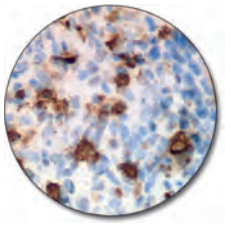


Breast hyperplasia (FFPE) stained with FLEX Anti-Mammaglobin, Code IR074/IS074.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link) (continued)

Monoclonal Mouse Anti-Human
Mast Cell Tryptase

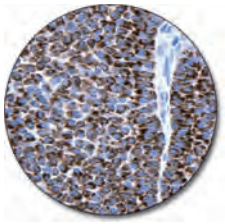
CE IR640 Clone AA1 60 tests, 12 mL



Mastocytosis in the subcutis (FFPE) stained with FLEX Anti-Mast Cell Tryptase, Code IR640/ IS640.

Monoclonal Mouse Anti-Human
Melan-A

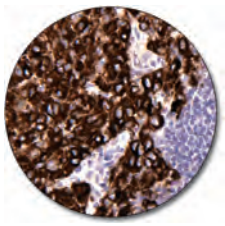
CE IR633 Clone A103 60 tests, 12 mL



Granulosa cell tumor (FFPE) stained with FLEX Anti-Melan-A, Code IR633/IS633.

Monoclonal Mouse Anti-Human
Melanosome

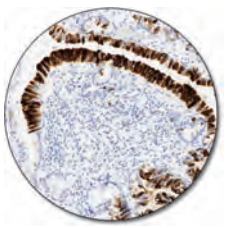
CE IR052 Clone HMB-45 60 tests, 12 mL



Metastatic melanoma (FFPE) stained with FLEX Anti-Melanosome, Code IR052/IS052.

Monoclonal Mouse Anti-Human
MUC2

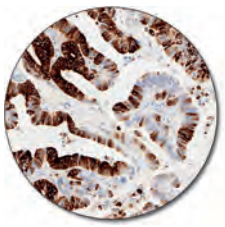
CE IR658 Clone CCP58 60 tests, 12 mL



Barrett's esophagus (FPPE) stained with FLEX Anti-MUC2, Code IR658.

Monoclonal Mouse Anti-Human
MUC5AC

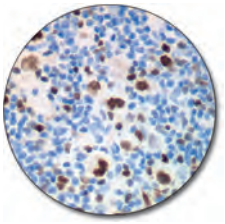
CE IR661 Clone CLH2 60 tests, 12 mL



Pancreas adenocarcinoma (FFPE) stained with FLEX Anti-MUC5AC, Clone CLH2, Code IR661.

Monoclonal Mouse Anti-Human
MUM1 Protein

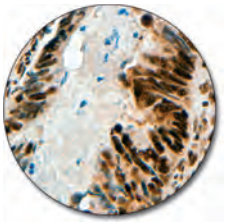
CE IR644 Clone MUM1p 60 tests, 12 mL



Classic Hodgkin's lymphoma, (FFPE) stained with FLEX Anti-MUM1 Protein, Code IR644/ IS644.

Monoclonal Mouse Anti-Human
MutL Protein Homolog 1

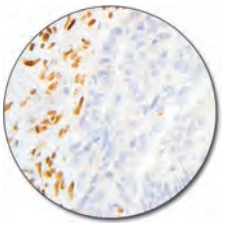
CE IR079 Clone ES05 60 tests, 12 mL



Colon adenocarcinoma (FFPE) stained with FLEX Anti-MutL Protein Homolog 1, Code IR079/IS079.

Monoclonal Mouse Anti-Human
MutS Protein Homolog 2

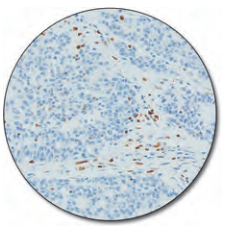
CE IR085 Clone FE11 60 tests, 12 mL



Colon adenocarcinoma (FFPE) with loss of MSH2 protein stained with FLEX Anti-MSH2, Code IR085.

Monoclonal Rabbit Anti-Human
MutS Protein Homolog 6

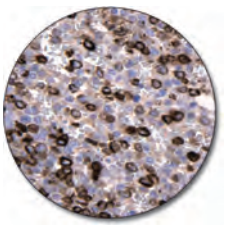
CE IR086 Clone EP49 60 tests, 12 mL



Colon adenocarcinoma (FFPE) with loss of MSH6 protein stained with FLEX Anti-MSH6, Code IR086.

Polyclonal Rabbit Anti-Human
Myeloperoxidase

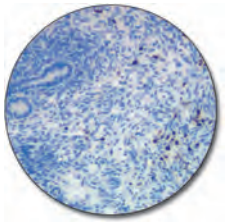
CE IR511 60 tests, 12 mL



Acute myeloid leukemia (FFPE) stained with FLEX Anti-Myeloperoxidase, Code IR511/ IS511.

Monoclonal Mouse Anti-
Myogenin

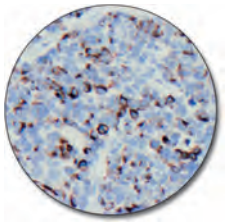
CE IR067 Clone F5D 60 tests, 12 mL



Wilms' tumor (FFPE) stained with FLEX Anti-Myogenin, Code IR067/IS067.

Monoclonal Mouse Anti-Human
Neurofilament Protein

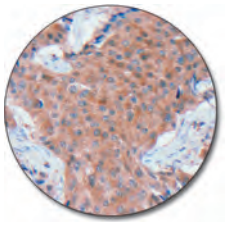
CE IR607 Clone 2F11 60 tests, 12 mL



Merkel cell carcinoma (FFPE) stained with FLEX Anti-Neurofilament Protein, Code IR607/IS607.

Monoclonal Mouse Anti-Human
Neuron-Specific Enolase (NSE)

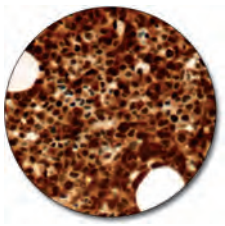
CE IR612 Clone BBS/NC/VI-H14 60 tests, 12 mL



Carcinoid tumor (FFPE) stained with FLEX Anti-NSE, Code IR612/IS612.

Monoclonal Mouse Anti-Human
Nucleophosmin

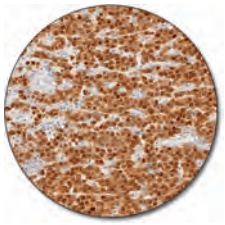
CE IR652 Clone 376 60 tests, 12 mL



Acute myeloid leukemia (FFPE) stained with FLEX Anti-Nucleophosmin, Code IR652.

Monoclonal Mouse Anti-Human
Octamer-Binding Transcription Factor 3/4

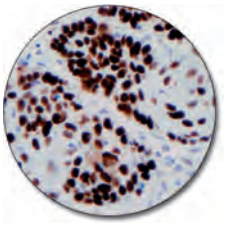
CE IR092 Clone N1NK 60 tests, 12 mL



Seminoma (FFPE) stained with FLEX Anti-OCT3/4, Code IR092.

Monoclonal Mouse Anti-Human
p53 Protein

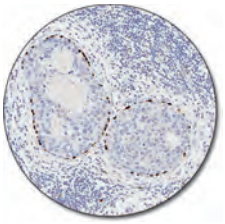
CE IR616 Clone DO-7 60 tests, 12 mL



Transitional cell carcinoma (FFPE) stained with FLEX Anti-p53 Protein, Code IR616/IS616.

Monoclonal Mouse Anti-Human
p63 Protein

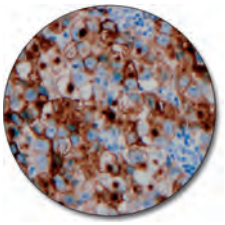
CE IR662 Clone DAK-p63 60 tests, 12 mL



Breast carcinoma in situ (FFPE) stained with FLEX Anti-p63 Protein, Code IR662.

Monoclonal Mouse Anti-Human
Placental Alkaline Phosphatase

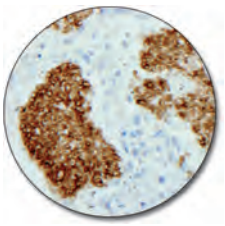
CE IR779 Clone 8A9 60 tests, 12 mL



Seminoma (FFPE) stained with FLEX Anti-Placental Alkaline Phosphatase, Code IR779/IS779.

Monoclonal Mouse Anti-
Pneumocystis Jiroveci

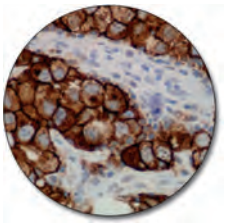
CE IR635 Clone 3F6 60 tests, 12 mL



Lung (FFPE) stained with FLEX Anti-Pneumocystis Jiroveci, Code IR635/IS635.

Monoclonal Mouse Anti-Human
Podoplanin

CE IR072 Clone D2-40 60 tests, 12 mL

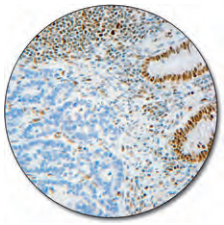


Mesothelioma (FFPE) stained with FLEX Anti-Podoplanin, Code IR072/IS072.

Primary Antibodies (FLEX Ready-to-Use) (Autostainer Link) (continued)

Monoclonal Rabbit Anti-Human
Postmeiotic Segregation Increased 2

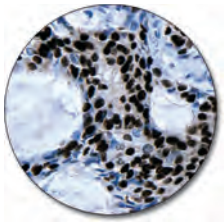
CE IR087 Clone EP51 60 tests, 12 mL



Colon adenocarcinoma (FFPE) with loss of PMS2 protein stained with FLEX Anti-PMS2, Code IR087.

Monoclonal Mouse Anti-Human
Progesterone Receptor

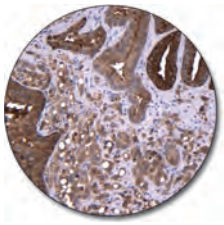
CE IR068 Clone PgR 636 60 tests, 12 mL



Breast ductal carcinoma (FFPE) stained with FLEX Anti-Progesterone Receptor, Code IR068.

Polyclonal Rabbit Anti-Human
Prostate-Specific Antigen (PSA)

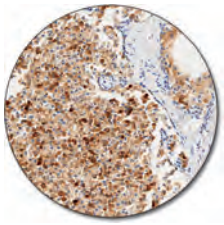
CE IR514 60 tests, 12 mL



Prostatic adenocarcinoma (FFPE) stained with FLEX Anti-PSA, Code IR514/IS514.

Monoclonal Mouse Anti-Human
Prostate-Specific Membrane Antigen

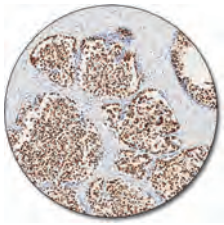
CE IR089 Clone 3E6 60 tests, 12 mL



Prostate adenocarcinoma (FFPE) stained with FLEX Anti-PSMA, Code IR089.

Monoclonal Mouse Anti-Human
Prostein

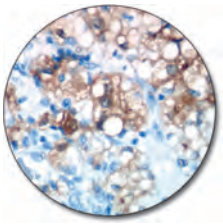
CE IR088 Clone 10E3 60 tests, 12 mL



Prostate adenocarcinoma (FPPE) stained with FLEX Anti-Prostein, Code IR088.

Monoclonal Mouse Anti-Human
Renal Cell Carcinoma Marker

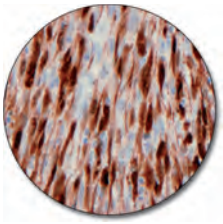
CE IR075 Clone SPM314 60 tests, 12 mL



Renal cell carcinoma (FFPE) stained with FLEX Anti-Renal Cell Carcinoma Marker, Code IR075/IS075.

Polyclonal Rabbit Anti-
S100

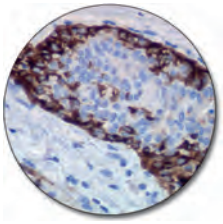
CE IR504 60 tests, 12 mL



Malignant melanoma (FFPE) stained with FLEX Anti-S100, Code IR504/IS504.

Monoclonal Mouse Anti-Human
Smooth Muscle Myosin Heavy Chain

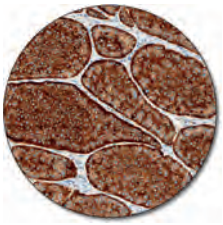
CE IR066 Clone SMMS-1 60 tests, 12 mL



Breast hyperplasia (FFPE) stained with FLEX Anti-Myosin Heavy Chain (Smooth Muscle), Code IR066/IS066.

Monoclonal Mouse Anti-Human
Synaptophysin

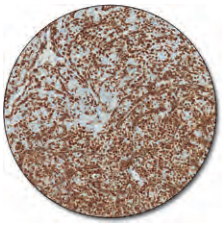
CE IR660 Clone DAK-SYNAP 60 tests, 12 mL



Small intestine carcinoid (FFPE) stained with FLEX Anti-Synaptophysin, Code IR660.

Monoclonal Rabbit Anti-Human
Terminal Deoxynucleotidyl Transferase (TdT)

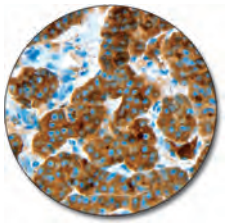
CE IR093 Clone EP266 60 tests, 12 mL



Thymoma (FFPE) stained with FLEX Anti-TdT, Code IR093.

Polyclonal Rabbit Anti-Human
Thyroglobulin

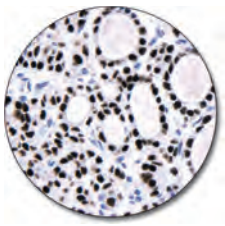
CE IR509 60 tests, 12 mL



Thyroid follicular carcinoma (FFPE) stained with FLEX Anti-Thyroglobulin, Code IR509/ IS509.

Monoclonal Mouse Anti-
Thyroid Transcription Factor (TTF-1)

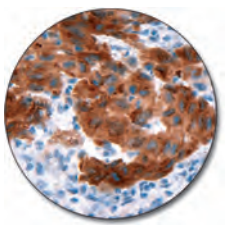
CE IR056 Clone 8G7G3/1 60 tests, 12 mL



Thyroid follicular carcinoma (FFPE) stained with FLEX Anti-TTF-1, Code IR056/IS056.

Monoclonal Muose Anti-Human
Tyrosinase

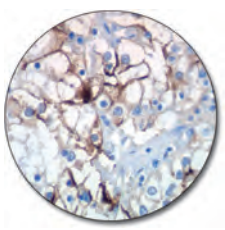
CE IR061 Clone T311 60 tests, 12 mL



Melanoma (FFPE) stained with FLEX Anti-Tyrosinase, Code IR061/IS061.

Monoclonal Mouse Anti-
Villin

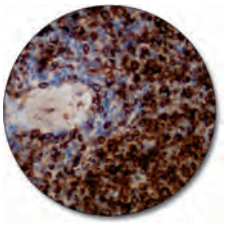
CE IR076 Clone 1D2 C3 60 tests, 12 mL



Renal cell carcinoma (FFPE) stained with FLEX Anti-Villin, Code IR076/IS076.

Monoclonal Mouse Anti-
Vimentin

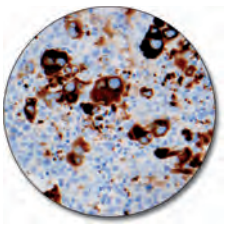
CE IR630 Clone V9 60 tests, 12 mL



B-cell chronic lymphocytic leukemia (FFPE) stained with FLEX Anti-Vimentin, Code IR630/ IS630.

Polyclonal Rabbit Anti-Human
Von Willebrand Factor

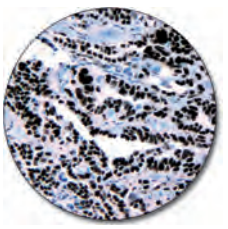
CE IR527 60 tests, 12 mL



Acute myeloid leukemia (FAB Type M7) (FFPE) stained with FLEX Anti-Von Willebrand Factor, Code IR527/IS527.

Monoclonal Mouse Anti-Human
Wilms' Tumor 1 (WT1) Protein

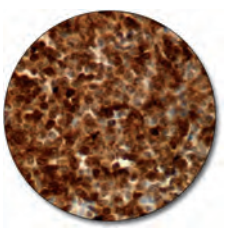
CE IR055 Clone 6F-H2 60 tests, 12 mL



Serous ovarian adenocarcinoma (FFPE) stained with FLEX Anti-Wilms' Tumor 1 (WT1) Protein, Code IR055/IS055.

Monoclonal Mouse Anti-Human
ZAP-70

CE IR653 Clone 2F3.2 60 tests, 12 mL



B-cell chronic lymphocytic leukemia (FFPE) stained with FLEX Anti-ZAP-70, Code IR653.

Negative Controls FLEX Ready-to-Use (Autostainer Link)

Negative Control for IR-Series Mouse Primary Antibodies

CE IR750 Ready-to-use 120 tests, 24 mL

Universal negative control for all FLEX ready-to-use **mouse** primary antibodies for use on Automated Link instruments. Packaged in Universal Vial.

Negative Control for IR-Series Rabbit Primary Antibodies

CE IR600 Ready-to-use 120 tests, 24 mL

Universal negative control for all FLEX ready-to-use **rabbit** primary antibodies for use on Automatedr Link instruments. Packaged in Universal Vial.

Visualization Systems (EnVision FLEX) (Autostainer Link)

EnVision FLEX and FLEX+ visualization systems are one of the building blocks in the FLEX IHC solution. EnVision FLEX and FLEX+ kits have been validated and packaged to ensure the reagents are working optimally together. Furthermore, the EnVision FLEX and FLEX+ protocols are available in the software for Autostainer Link 48, and this concept of having only one protocol for each system adds another level of standardization. When combined with the FLEX RTU antibody series - which are optimized to one of the EnVision FLEX or FLEX+ protocols - an even further level of standardization is achieved. The result is robust and high-quality staining of the tissues. Customer usage has confirmed that EnVision FLEX and FLEX+ easily can be the preferred visualization system, e.g. Skaland et al.* have produced the below results in their laboratory.

	Sensitivity Ranking No.	False Negative	Background Staining	TAT (minutes)	Overall Conclusion
EnVision FLEX+	1	No	No	259	Best choice
EnVision FLEX	2	No	No	224	OK choice
EnVision	2	No	No	224	OK choice
Competitor Product 1	2 (mouse) 3 (rabbit)	Sometimes	Yes	342	Not the best choice
Competitor Product 2	4	Sometimes	Yes	308	Not the best choice

* Skaland I, Nordhus M, Gudlaugsson E, Klos J, Kjellevold KH, Janssen EA, et al. Evaluation of 5 different labeled polymer immunohistochemical detection systems. Appl Immunohistochem Mol Morphol 2010;18:90-6.

EnVision FLEX, High pH (Link)

CE K8000 HRP. Rabbit/Mouse. High pH 400-600 tests

EnVision FLEX, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Autostainer Link Instruments. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Autostainer Link Instruments.

EnVision FLEX Mini Kit, High pH (Link)

CE K8023 HRP. Rabbit/Mouse. High pH 125-190 tests

EnVision FLEX Mini Kit, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Autostainer Link Instruments. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Autostainer Link Instruments.

EnVision FLEX+, Mouse, High pH (Link)

CE K8002 HRP. Mouse. High pH 400-600 tests

EnVision FLEX+, Mouse, High pH is a very-high-sensitivity visualization system intended for use in immunohistochemistry together with Autostainer Link Instruments. The EnVision FLEX+ Mouse (LINKER) amplifies the signal of primary mouse antibodies and the reaction is visualized by DAB+ Chromogen. In addition to the EnVision FLEX+ Mouse (LINKER) the convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). The EnVision FLEX+ Rabbit (LINKER), Code K8009, is an optional EnVision FLEX reagent that may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary rabbit antibodies. EnVision FLEX+ convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Autostainer Link Instruments.

Optional Reagents (EnVision FLEX) (Autostainer Link)

Antibody Diluent

CE K8006 Diluent 400-600 tests, 120 mL,

EnVision FLEX Antibody Diluent is an optional EnVision FLEX reagent and is recommended for the dilution of Dako concentrated Primary Antibodies. EnVision FLEX Antibody Diluent is compatible with all EnVision FLEX and FLEX+ convenience kits.

Hematoxylin (Link)

CE K8008 Ready-to-use 400-600 tests, 3 x 45 mL

EnVision FLEX Hematoxylin is an optional EnVision FLEX reagent and is recommended for counterstaining. The reagent provides a clear blue, nuclear staining. EnVision FLEX Hematoxylin is compatible with EnVision FLEX and FLEX+ convenience kits.

Mouse (LINKER) (Link)

CE K8021 Ready-to-use 130-200 tests, 40 mL

EnVision FLEX+ Mouse (LINKER) is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary mouse antibodies.

Rabbit (LINKER) (Link)

CE K8009 Ready-to-use 130-200 tests, 40 mL

EnVision FLEX+ Rabbit (LINKER) is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary rabbit antibodies.

Target Retrieval Solution, High pH

CE K8004 Concentrate 3 x 30 mL, 50x concentrated

EnVision FLEX Target Retrieval Solution, High pH is an optional EnVision FLEX reagent containing 50x concentrated Tris/EDTA, pH 9 and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments. One 30 mL bottle, when properly diluted, is enough to fill one PT Link tank.

Target Retrieval Solution, Low pH

CE K8005 Concentrate 3 x 30 mL, 50x concentrated

EnVision FLEX Target Retrieval Solution, Low pH is an optional EnVision FLEX reagent containing 50x concentrated citrate buffer, pH 6.1 and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments. One 30 mL bottle, when properly diluted, is enough to fill one PT Link tank.

Wash Buffer

CE K8007 Concentrate 1 L, 20x concentrated

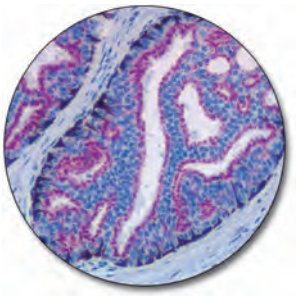
EnVision FLEX Wash Buffer is an optional EnVision FLEX reagent containing 20x concentrated wash buffer and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments.

Doublestaining System (EnVision DuoFLEX) (Autostainer Link)

EnVision DuoFLEX Doublestain System (Link)

CE SK110 HRP/AP, Rabbit/Mouse 100-150 tests, 30 mL

EnVision DuoFLEX Doublestain System is intended for use in immunohistochemistry together with Autostainer Link instruments. This system is useful for the simultaneous detection of multiple antigens present in low or high concentrations within one specimen. The visualization is based on peroxidase (HRP) using DAB+ as chromogen and alkaline phosphatase (AP) using Permanent Red as chromogen. EnVision DuoFLEX Doublestain System is biotin-free, thus significantly reducing non-specific staining resulting from endogenous avidin-biotin activity. This visualization system should be used for Dako DuoFLEX Cocktail antibodies.
Note: The number of tests is based on the use of 200 µL or 300 µL of reagent per slide.



Prostate (FFPE) stained with DuoFLEX Cocktail Anti-AMACR + Anti-Cytokeratin HMW + Anti-Cytokeratin 5/6, Code IC004.

Autostainer Plus for IHC

Dako Autostainer Plus Staining System allows for staining procedures and processing of specimens to be performed automatically. The instrument is suited for immunostaining of tissue sections, cytospins and cell smears.

The system has four elements:

- **Autostainer Plus Instrument**
  The instrument is no longer available, but is still being supported
- **Autostainer Plus Software**
  The flexible and open software allows for creating and saving staining protocols. It does not provide means of connectivity to Laboratory Information System or Local Area Network
- **Reagents**
  A dedicated line of FLEX ready-to-use reagents gives high quality staining results
- **Slide Labeling System**
  Slide labels can be printed from the Autostainer Plus software

Ancillaries and Accessories (Dako Autostainer)

Accessory Utensils

S3424	Dako Autostainer Reagent Racks, One White/ One Blue	2 racks
S3425	Dako Autostainer Reagent Vials	100 vials
S3704	Dako Autostainer Slide Racks	4 racks

AEC+ Substrate-Chromogen

CE	K3461	Ready-to-use	150 tests, 15 mL
CE	K3469	Ready-to-use	1100 tests, 110 mL

AEC+ Substrate-Chromogen is especially useful in applications requiring high sensitivity. It is suitable for use in peroxidase-based immunohistochemical staining methods. AEC (3-amino-9-ethylcarbazole) forms a red end-product at the site of the target antigen. AEC must be used together with aqueous mounting fluids.

Clear-It Cleaning Reagent for Dako Autostainer

CE SL002 — 3.8 L

This reagent is suitable for cleaning the Dako Autostainer sink and reservoir after performing histological stains.

DAB+, Liquid

CE K3468 — 10 x 11 mL△

Liquid DAB+ is a high sensitivity substrate-chromogen system for use in peroxidase-based immunohistochemical staining methods. DAB (diaminobenzidine) forms a very stable, brown end-product at the site of the target antigen. DAB may be used together with mounting fluids containing organic solvents.

DAB-Away®, Cleaning Agent

CE S1967 DAB chromogen removal system — 50 tests, 250 mL

For cleaning of glassware, parts and surfaces that have come in contact with 3,3'-diaminobenzidine (DAB). Is recommended for routine cleaning of the Dako Autostainer probe and surfaces. Contains materials sufficient for 250 mL of cleaning reagent working solution and 250 mL of decolorizer.

Hematoxylin

CE S3301 — 500 mL

Developed for use with the Dako Autostainer.

IHC Microscope Slides, FLEX

CE K8020 Coated glass slides — 5 x 100 slides

Coated microscope slides for adhesion of formalin-fixed, paraffin-embedded tissue sections for use in immunohistochemistry with Dako EnVision FLEX visualization systems. FLEX IHC Microscope Slides are compatible with, but not limited to, the following Dako instruments: Dako Omnis, Autostainer Link, Dako Autostainer/Autostainer Plus and PT Link.

Peroxidase-Blocking Solution, Dako REAL

CE S2023 Ready-to-use — 1250 tests

Strongly inhibits endogenous peroxidase in frozen and formalin-fixed, paraffin-embedded tissue sections and is especially optimized for automated use.

Peroxidase and Alkaline Phosphatase Blocking Reagent (Dual Endogenous Enzyme-Blocking Reagent)

CE S2003 — 10 x 11 mL△

Suppresses endogenous alkaline phosphatase and peroxidase in cell preparations, frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

Proteinase K

CE S3020 Ready-to-use — 10 x 11 mL△

Proteinase K is intended for proteolytic epitope retrieval in formalin-fixed, paraffin-embedded tissues prior to immunohistochemical procedures.

Proteinase K, Dako REAL

CE S2019 Concentrate — 750 tests, 4 mL, 40x concentrated

Makes 160 mL of working solution. Dako REAL Proteinase K is intended for proteolytic epitope retrieval in combination with heat-induced epitope retrieval in batch processing of slides. The working solution is prepared by diluting the concentrate 40 times with Dako REAL Proteinase K Diluent, S2032.

Proteinase K Diluent, Dako REAL

CE S2032 Ready-to-use diluent — 250 mL

For dilution of Dako REAL Proteinase K, S2019.

Proteolytic Enzyme

CE S3007 Ready-to-use — 10 x 11 mL△

Proteolytic Enzyme, Ready-to-Use, is intended for the proteolytic digestion of formalin-fixed, paraffin-embedded tissues, cell blocks or cell specimens prior to immunohistochemical (IHC) or in situ hybridization (ISH) procedures. Proteolytic digestion of formalin-fixed tissues improves accessibility of antibodies and DNA probes to target sites within tissues. In IHC, proteolytic digestion exposes certain epitopes which have been masked during fixation. In ISH procedures, accessibility of DNA sequences is enhanced allowing better probe penetration and hybridization.

Wash Buffer 10x

CE S3006 Concentrate — 1 L, 10x concentrated

Tris-buffered saline solution containing 0.05% Tween 20, pH 7.6. Well-suited for use in manual and automated immunohistochemical staining protocols.

△ Packaged in vials for use with Dako Autostainer instruments

pharmDx Kits (Dako Autostainer)

c-Kit pharmDx for Dako Autostainer

CE K1907 35 tests

c-Kit pharmDx is a qualitative immunohistochemical kit system for the identification of c-kit (CD117) protein expression in normal and neoplastic tissues. c-Kit pharmDx is indicated as an aid in the differential diagnosis of gastrointestinal stromal tumors (GIST). Accurate assessment of c-kit protein expression is now a critical factor in the diagnosis of GIST and is becoming increasingly important in influencing decisions regarding clinical management, including the use of Gleevec®/Glivec® (imatinib mesylate) for the treatment of patients with confirmed GIST.
c-Kit pharmDx utilizes a simple two-step staining procedure and is suitable for formalin-fixed, paraffin-embedded specimens. The kit includes ready-to-use primary antibody, negative control reagent, cell line control slides and detailed instructions. The kit has been tailored especially for use on the Dako Autostainer.

EGFR pharmDx Kit for Dako Autostainer

CE K1494 50 tests

EGFR pharmDx Kit is a qualitative immunohistochemical kit system that includes all reagents necessary to identify expression of epidermal growth factor receptor (EGFR) protein on the surface of normal and neoplastic cells. EGFR protein is also called HER1 protein. Through the use of standard methods and reagents, EGFR pharmDx Kit will provide reproducible results from laboratory to laboratory. EGFR is indicated as an aid in identifying colorectal cancer patients eligible for treatment with Erbitux® (cetuximab) or Vectibix™ (panitumumab). The kit utilizes a simple two-step staining procedure and is suitable for formalin-fixed, paraffin-embedded specimens. Results can be available within 1 day, giving clinicians EGFR expression levels in a quick and reliable manner. The kit has been designed for use on the Dako Autostainer.

ER/PR pharmDx Kit for the Dako Autostainer

CE K4071 50 tests

ER/PR pharmDx Kit is a semi-quantitative immunohistochemical kit system to identify estrogen receptor (ER) α protein and progesterone receptor (PR) protein expression in normal and neoplastic tissues. The assay specifically detects the ER α protein as well as the PR protein located in the cell nuclei of ER and PR-expressing cells, respectively. ER/PR pharmDx Kit is indicated as an aid in identifying patients eligible for treatment with anti-hormonal or aromatase inhibitor therapies as well as an aid in the prognosis and management of breast cancer.
The kit utilizes a simple two-step staining procedure and is suitable for formalin-fixed, paraffin-embedded specimens. The kit provides all the reagents needed to run the ER/PR tests, including control slides to validate each run, and detailed instructions. A scoring guideline is included to facilitate interpretation.

HercepTest for Dako Autostainer

CE K5207 50 tests

HercepTest is a semi-quantitative immunohistochemical assay for determination of HER2 protein (c-erbB-2 oncoprotein) overexpression in breast cancer tissues routinely processed for histological evaluation and formalin-fixed, paraffin-embedded cancer tissue from patients with adenocarcinoma of the stomach, including the gastroesophageal junction. HercepTest with the indication adenocarcinoma of the stomach, including the gastroesophageal junction, is not available on selected markets. HercepTest specifically demonstrates overexpression of HER2 protein. HercepTest is indicated as an aid in the assessment of patients for whom Herceptin™ (trastuzumab) treatment is being considered.
K5207 has been tailored especially for use on the Dako Autostainer.

HercepTest™ and Herceptin™ are trademarks of Genentech, Inc. subject to licenses held by Dako Denmark A/S and F. Hoffmann-La Roche Ltd. HercepTest™ is subject to an exclusive trademark license to Dako Denmark A/S.

Go to page 143 to read about all our pharmDx products.

Primary Antibodies (FLEX Ready-to-Use) (Dako Autostainer)

The IS-Series FLEX Ready-to-Use Primary Antibodies listed in this section are packaged in Dako Autostainer Reagent Vials for convenience, ease of operation, and time savings.

IS-Series Antibodies can only be used with EnVision FLEX and EnVision FLEX+ Visualization Systems.

The package insert included with each Dako antibody gives a detailed product description.

Monoclonal Mouse Anti-Human
Actin (Muscle)
CE IS700 Clone HHF35 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Actin (Smooth Muscle)
CE IS611 Clone 1A4 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Alpha-1-Antitrypsin
CE IS505 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Alpha-1-Fetoprotein
CE IS500 30 tests, 6 mL

Monoclonal Rabbit Anti-Human
AMACR
CE IS060 Clone 13H4 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Amyloid A
CE IS605 Clone mc1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
B-Cell-Specific Activator Protein
CE IS650 Clone DAK-Pax5 30 tests, 6 mL

Monoclonal Mouse Anti-Human
BCL2 Oncoprotein
CE IS614 Clone 124 30 tests, 6 mL

Monoclonal Mouse Anti-Human
BCL6 Protein
CE IS625 Clone PG-B6p 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Beta-Catenin
CE IS702 Clone β-Catenin-1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CA 125
CE IS701 Clone M11 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Calcitonin
CE IS515 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Caldesmon
CE IS054 Clone h-CD 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Calretinin
CE IS627 Clone DAK-Calret 1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Carcinoembryonic Antigen (CEA)
CE IS622 Clone II-7 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Carcinoembryonic Antigen (CEA)
CE IS526 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD1a
CE IS069 Clone 010 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD2
CE IS651 Clone AB75 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
CD3
CE IS503 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD4
CE IS649 Clone 4B12 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD5
CE IS082 Clone 4C7 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD7
CE IS643 Clone CBC.37 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD8
CE IS623 Clone C8/144B 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD10
CE IS648 Clone 56C6 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD15
CE IS062 Clone Carb-3 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD19
CE IS656 Clone LE-CD19 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD20cy
CE IS604 Clone L26 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD21
CE IS608 Clone 1F8 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD23
CE IS781 Clone DAK-CD23 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD30
CE IS602 Clone Ber-H2 30 tests, 6 mL

Primary Antibodies (FLEX Ready-to-Use) (Dako Autostainer) (continued)

Monoclonal Mouse Anti-Human
CD31, Endothelial Cell
CE IS610 Clone JC70A 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD34 Class II
CE IS632 Clone QBEnd 10 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD43
CE IS636 Clone DF-T1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD45, Leucocyte Common Antigen
CE IS751 Clones 2B11 + PD7/26 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD56
CE IS628 Clone 123C3 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD57
CE IS647 Clone TB01 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD68
CE IS609 Clone KP1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD68
CE IS613 Clone PG-M1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD79α
CE IS621 Clone JCB117 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD99, MIC2 Gene Products, Ewing's Sarcoma Marker
CE IS057 Clone 12E7 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD138
CE IS642 Clone MI15 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CD246, ALK Protein
CE IS641 Clone ALK1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
CDX2
CE IS080 Clone DAK-CDX2 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Chorionic Gonadotropin (hCG)
CE IS508 30 tests, 6 mL

Monoclonal Rabbit Anti-Human
Cyclin D1
CE IS083 Clone EP12 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Cytokeratin
CE IS053 Clone AE1/AE3 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Cytokeratin 5/6
CE IS780 Clone D5/16 B4 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Cytokeratin 7
CE IS619 Clone OV-TL 12/30 30 tests, 6 mL

Monoclonal Mouse Anti-
Cytokeratin 17
CE IS620 Clone E3 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Cytokeratin 18
CE IS618 Clone DC 10 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Cytokeratin 19
CE IS615 Clone RCK108 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Cytokeratin 20
CE IS777 Clone K_s20.8 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Cytokeratin, High Molecular Weight
CE IS051 Clone 34ßE12 30 tests, 6 mL

Monoclonal Mouse Anti-
Cytomegalovirus
CE IS752 Clones CCH2 + DDG9 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Desmin
CE IS606 Clone D33 30 tests, 6 mL

Monoclonal Mouse Anti-Human
E-Cadherin
CE IS059 Clone NCH-38 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Epithelial Antigen
CE IS637 Clone Ber-EP4 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Epithelial Membrane Antigen (EMA)
CE IS629 Clone E29 30 tests, 6 mL

Monoclonal Mouse Anti-
Epstein-Barr Virus, LMP
CE IS753 Clones CS.1-4 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Estrogen Receptor α
CE IS657 Clone 1D5 30 tests, 6 mL

Monoclonal Rabbit Anti-Human
Estrogen Receptor α
CE IS084 Clone EP1 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Gastrin
CE IS519 30 tests, 6 mL

Polyclonal Rabbit Anti-
Glial Fibrillary Acidic Protein
CE IS524 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Gross Cystic Disease Fluid Protein-15
CE IS077 Clone 23A3 30 tests, 6 mL

Primary Antibodies (FLEX Ready-to-Use) (Dako Autostainer) (continued)

Polyclonal Rabbit Anti-
Helicobacter Pylori
CE IS523 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Hepatocyte
CE IS624 Clone OCH1E5 30 tests, 6 mL

Polyclonal Rabbit Anti-
Herpes Simplex Virus Type 1
CE IS521 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
IgA
CE IS510 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
IgD
CE IS517 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
IgG
CE IS512 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
IgM
CE IS513 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Inhibin α
CE IS058 Clone R1 30 tests, 6 mL

Polyclonal Guinea Pig Anti-
Insulin
CE IS002 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Kappa Light Chains
CE IS506 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Ki-67 Antigen
CE IS626 Clone MIB-1 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Lambda Light Chains
CE IS507 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Mammaglobin
CE IS074 Clone 304-1A5 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Mast Cell Tryptase
CE IS640 Clone AA1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Melan-A
CE IS633 Clone A103 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Melanosome
CE IS052 Clone HMB-45 30 tests, 6 mL

Monoclonal Mouse Anti-Human
MUM1 Protein
CE IS644 Clone MUM1p 30 tests, 6 mL

Monoclonal Mouse Anti-Human
MutL Protein Homolog 1
CE IS079 Clone ES05 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Myeloperoxidase
CE IS511 30 tests, 6 mL

Monoclonal Mouse Anti-
Myogenin
CE IS067 Clone F5D 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Neurofilament Protein
CE IS607 Clone 2F11 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Neuron-Specific Enolase (NSE)
CE IS612 Clone BBS/NC/VI-H14 30 tests, 6 mL

Monoclonal Mouse Anti-Human
p53 Protein
CE IS616 Clone DO-7 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Placental Alkaline Phosphatase
CE IS779 Clone 8A9 30 tests, 6 mL

Monoclonal Mouse Anti-
Pneumocystis Jiroveci
CE IS635 Clone 3F6 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Podoplanin
CE IS072 Clone D2-40 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Progesterone Receptor
CE IS068 Clone PgR 636 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Prostate-Specific Antigen (PSA)
CE IS514 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Renal Cell Carcinoma Marker
CE IS075 Clone SPM314 30 tests, 6 mL

Polyclonal Rabbit Anti-
S100
CE IS504 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Smooth Muscle Myosin Heavy Chain
CE IS066 Clone SMMS-1 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Thyroglobulin
CE IS509 30 tests, 6 mL

Monoclonal Mouse Anti-
Thyroid Transcription Factor (TTF-1)
CE IS056 Clone 8G7G3/1 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Tyrosinase
CE IS061 Clone T311 30 tests, 6 mL

Primary Antibodies (FLEX Ready-to-Use) (Dako Autostainer) (continued)

Monoclonal Mouse Anti-
Villin

CE IS076 Clone 1D2 C3 30 tests, 6 mL

Monoclonal Mouse Anti-
Vimentin

CE IS630 Clone V9 30 tests, 6 mL

Polyclonal Rabbit Anti-Human
Von Willebrand Factor

CE IS527 30 tests, 6 mL

Monoclonal Mouse Anti-Human
Wilms' Tumor 1 (WT1) Protein

CE IS055 Clone 6F-H2 30 tests, 6 mL

Negative Controls (FLEX Ready-to-Use) (Dako Autostainer)

Negative Control for IS-Series Mouse Primary Antibodies

CE IS750 Ready-to-use 60 tests, 12 mL

Universal negative control for all FLEX ready-to-use **mouse** primary antibodies for use on Dako Autostainer/Autostainer Plus instruments. Packaged in Dako Autostainer Vial.

Negative Control for IS-Series Rabbit Primary Antibodies

CE IS600 Ready-to-use 60 tests, 12 mL

Universal negative control for all FLEX ready-to-use **rabbit** primary antibodies for use on Dako Autostainer/Autostainer Plus instruments. Packaged in Autostainer Reagent Vial.

Visualization Systems (EnVision FLEX) (Dako Autostainer)

EnVision FLEX, High pH
(Dako Autostainer/Autostainer Plus)

CE K8010 HRP. Rabbit/Mouse. High pH 400-600 tests

EnVision FLEX, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Autostainer Instruments. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Autostainer Instruments.

EnVision FLEX Mini Kit, High pH
(Dako Autostainer/Autostainer Plus)

CE K8024 HRP. Rabbit/Mouse. High pH 125-190 tests

EnVision FLEX Mini Kit, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Autostainer Instruments. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Autostainer Instruments.

EnVision FLEX+, Mouse, High pH
(Dako Autostainer/Autostainer Plus)

CE K8012 HRP. Mouse. High pH 400-600 tests

EnVision FLEX+, Mouse, High pH is a very-high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Autostainer Instruments. The EnVision FLEX+ Mouse (LINKER) amplifies the signal of primary mouse antibodies and the reaction is visualized by DAB+ Chromogen. In addition to the EnVision FLEX+ Mouse (LINKER) the convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). The EnVision FLEX+ Rabbit (LINKER), Code K8019, is an optional EnVision FLEX reagent that may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary rabbit antibodies. EnVision FLEX+ convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Autostainer Instruments.

Optional Reagents (EnVision FLEX) (Dako Autostainer)

Antibody Diluent

CE K8006 Diluent 400-600 tests, 120 mL,

EnVision FLEX Antibody Diluent is an optional EnVision FLEX reagent and is recommended for the dilution of Dako concentrated Primary Antibodies. EnVision FLEX Antibody Diluent is compatible with all EnVision FLEX and FLEX+ convenience kits.

Hematoxylin (Dako Autostainer/Autostainer Plus)

CE K8018 Ready-to-use 400-600 tests, 10 x 13 mL

EnVision FLEX Hematoxylin is an optional EnVision FLEX reagent and is recommended for counterstaining. The reagent provides a clear blue, nuclear staining. EnVision FLEX Hematoxylin is compatible with EnVision FLEX and FLEX+ convenience kits.

Mouse (LINKER) (Dako Autostainer/Autostainer Plus)

CE K8022 Ready-to-use 120-190 tests, 3 x 13 mL

EnVision FLEX+ Mouse (LINKER) is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary mouse antibodies.

Rabbit (LINKER) (Dako Autostainer/Autostainer Plus)

CE K8019 Ready-to-use 120-190 tests, 3 x 13 mL

EnVision FLEX+ Rabbit (LINKER) is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary rabbit antibodies.

Target Retrieval Solution, High pH

CE K8004 Concentrate 3 x 30 mL, 50x concentrated

EnVision FLEX Target Retrieval Solution, High pH is an optional EnVision FLEX reagent containing 50x concentrated Tris/EDTA, pH 9 and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments. One 30 mL bottle, when properly diluted, is enough to fill one PT Link tank.

Target Retrieval Solution, Low pH

CE K8005 Concentrate 3 x 30 mL, 50x concentrated

EnVision FLEX Target Retrieval Solution, Low pH is an optional EnVision FLEX reagent containing 50x concentrated citrate buffer, pH 6.1 and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments. One 30 mL bottle, when properly diluted, is enough to fill one PT Link tank.

Wash Buffer

CE K8007 Concentrate 1 L, 20x concentrated

EnVision FLEX Wash Buffer is an optional EnVision FLEX reagent containing 20x concentrated wash buffer and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments.

Visualization Systems (Dako Autostainer)

ADVANCE

CE K4069 HRP. Rabbit/Mouse 55 tests
CE K4068 HRP. Rabbit/Mouse 550 tests

This ready-to-use, peroxidase-based ADVANCE kit is compatible with suitably diluted rabbit and mouse primary antibodies. The ADVANCE kit is a super-sensitive, non-biotin based, immunohistochemical visualization system that is useful for the detection of antigens in low concentrations, for short incubation time or for higher dilution of primary antibodies. ADVANCE is 5 or more times more sensitive than EnVision+ and with approximately the same sensitivity as CSA II.
Note: The number of tests for this kit is based on the use of 200 µL of reagent per slide.

Dako REAL Detection Systems (LSAB+)

CE K5005 AP/RED, Rabbit/Mouse 500 tests
CE K5003 HRP/AEC, Rabbit/Mouse 500 tests
CE K5001 HRP/DAB+, Rabbit/Mouse 500 tests

For use with both rabbit and mouse primary antibodies. The kits contain, in user-friendly dropper bottles, ready-to-use biotinylated link antibody and ready-to-use streptavidin conjugated with alkaline phosphatase (K5005) or peroxidase (K5001, K5003).
The substrates provided with the kits are:
K5005: Five-component naphthol phosphate/Fast Red.
K5003: One-component, ready-to-use hydrogen peroxide/aminoethylcarbazole.
K5001: Two-component hydrogen peroxide/diaminobenzidine.
Dako Autostainer templates exist for all three kit versions.

EnVision Detection Systems Peroxidase/DAB, Rabbit/Mouse

CE K4065 HRP/DAB+, Rabbit/Mouse 150 tests
CE K5007 HRP/DAB+, Rabbit/Mouse 500 tests

For use with both rabbit and mouse primary antibodies. The kit contains, in user-friendly dropper bottles, ready-to-use EnVision reagent. Also included is two-component high-sensitivity diaminobenzidine (DAB+) chromogenic substrate system.
The EnVision reagent of this kit is a peroxidase-conjugated polymer backbone, which, in addition, also carries secondary antibody molecules directed against rabbit and mouse immunoglobulins. The combination of several peroxidase molecules and several secondary antibody molecules on the same polymer provides a simple, yet sensitive, visualization system. Endogenous biotin will not affect staining results.
Other reagent provided with the kit is:
Extra DAB for double application of chromogen.
Dako Autostainer template exists for Code K5007.

EnVision+ Dual Link, Single Reagent

CE K4061 HRP. Rabbit/Mouse 10 x 11 mL

This ready-to-use, peroxidase-conjugated EnVision+ Dual Link reagent is for use when a detection system more sensitive than the LSAB2 kit is needed. It is compatible with suitably diluted rabbit and mouse primary antibodies. The reagent is provided in Dako Autostainer Reagent Vials.

EnVision G|2 Doublestain System, Rabbit/Mouse (DAB+/Permanent Red)

CE K5361 150 tests

EnVision G|2 Doublestain System is a high-sensitivity peroxidase and alkaline-phosphatase-based 2nd generation visualization kit. The kit is intended for use in immunohistochemistry for the simultaneous detection of two different antigens within the same specimen, and is compatible with suitably diluted rabbit and mouse primary antibodies. The kit may be used on formalin-fixed, paraffin-embedded tissue sections and fixed cell smears. In addition to the ready-to-use EnVision G|2 reagents packaged in Dako Autostainer Reagent Vials, the kit includes both DAB+ and Permanent Red chromogenic substrate systems.
Note: The number of tests for this kit is based on the use of 200 µL of reagent per slide.

EnVision G|2 System/AP, Rabbit/Mouse (Permanent Red)

CE K5355 50 tests/500 tests

EnVision G|2 System/AP is a high-sensitivity alkaline-phosphatase-based 2nd generation visualization kit. The kit is intended for use in immunohistochemistry, and it is compatible with suitably diluted rabbit and mouse primary antibodies. The kit may be used on formalin-fixed, paraffin-embedded tissue sections, frozen sections and fixed cell smears. In addition to the ready-to-use EnVision G|2 reagents packaged in Dako Autostainer Reagent Vials, the kit includes a Permanent Red chromogenic substrate system. The kit may be used in manual procedures or with the Dako Autostainer instruments.
Note: The number of tests for this kit is based on the use of 200 µL of reagent per slide.

EnVision+ Kits

CE K4005 HRP. Mouse (AEC+) 1100 tests
CE K4007 HRP. Mouse (DAB+) 1100 tests
CE K4009 HRP. Rabbit (AEC+) 1100 tests
CE K4011 HRP. Rabbit (DAB+) 1100 tests

These ready-to-use, peroxidase-based EnVision+ kits are compatible with suitably diluted mouse or rabbit primary antibodies, respectively. In addition to the ready-to-use EnVision+ reagent, the kits include a blocking reagent for endogenous peroxidase, and a high-sensitivity 3-amino-9-ethylcarbazole (AEC+) chromogenic substrate system.

Universal LSAB2 Kit/HRP, Rabbit/Mouse

CE K0675 10 x 11 mL Link + 10 x 11 mL Streptavidin/HRP

This peroxidase-based visualization kit is for use with both rabbit and mouse primary antibodies. The biotinylated link antibody in the kit is produced in goat. Reagents are ready-to-use and are provided in Dako Autostainer Reagent Vials.

Antibodies and Controls

Primary Antibodies
Primary monoclonal and polyclonal antibodies, primary antibody conjugates, and prediluted ready-to-use antibody systems are presented here. These products are intended for use on tissue sections and/or cell smears.

Products originating from the same primary antibody have been grouped together. For each group, suitable tissue fixation and pre-treatment of sections are indicated.

All Dako antibody reagents for immunohistochemistry are in liquid form and contain an antimicrobial agent. A detailed product description, a guideline for dilution, and a recommended staining procedure are given in the package insert included with each vial.

Antibody Forms
Dako primary antibodies for immunohistochemistry are provided undiluted as well as in ready-to-use forms adapted for different staining procedures and detection kits as described below.

Concentrated antibody reagents
The polyclonal antibody reagents are provided as whole serum, Ig fractions, $F(ab')_2$ fragments or affinity-isolated while the monoclonal antibodies are provided as tissue culture supernatants or purified from culture supernatants. In a few cases, monoclonal antibodies have been purified from ascitic fluid.

Ready-to-use, for EnVision FLEX
(GA, IR and IS-Series)
GA-series is designed for Dako Omnis, IR-series is designed for Automated Link Platforms, and the IS-series is designed for Dako Autostainer and Autostainer Plus. For optimal performance these prediluted primary antibodies can only be used with EnVision FLEX and EnVision FLEX+ visualization systems. FLEX Ready-to-Use Universal Negative Controls are available separately for monoclonal mouse (Code GA750, IR750 and IS750) and polyclonal rabbit (Code GA600, IR600 and IS600) primary antibodies.

Ready-to-Use, for EnVision DuoFLEX
(IC-Series)
These ready-to-use antibody cocktails are designed for optimal performance using EnVision DuoFLEX Doublestain System, and will provide a two-color staining reaction on the same tissue section. The IC-series is designed for Automated Link Platforms.

Antibody Applications
Antigens may resist fixation to a variable degree. Therefore, suitable tissue fixation and, when necessary, antigen retrieval method are listed for each antibody and explained below.

- **Frozen:** The appropriately diluted and concentrated antibody is useful for labelling sections of frozen tissue fixed in acetone for 10 minutes. It also works well on cell smears fixed in a 19:19:1 mixture of acetone:methanol:36% fomalin for 90 seconds, or in acetone for 10 minutes.
- **Formalin:** The antibody is suitable for labelling formalin-fixed, paraffin-embedded (FFPE) tissue sections. The duration of the formalin fixation should, generally, not exceed 24-48 hours.
- **Enzyme:** Optimal staining results require adequate treatment of deparaffinized, formalin-fixed tissue sections with a proteolytic enzyme before incubation with the antibody. Detailed procedures for the use of Dako proteolytic enzymes are included with the products.
- **HIER:** Optimal staining results require heat-induced epitope retrieval (HIER) of deparaffinized, formalin-fixed tissue sections, for example in a microwave oven, a pressure cooker or a water bath, before incubation with the antibody. During heat treatment the sections must be immersed in a suitable buffer. A detailed procedure is available from Dako.
- **Enzyme/HIER:** Optimal staining results on deparaffinized, formalin-fixed tissue sections require *either* treatment with a proteolytic enzyme *or* heating in a suitable buffer before incubation with the antibody.
- **Enzyme + HIER:** Optimal staining results on deparaffinized, formalin-fixed tissue sections require treatment with a proteolytic enzyme as well as heating in a suitable buffer before incubation with the antibody.

Stains
All immunohistochemical stains are from formalin-fixed, paraffin-embedded (FFPE) tissue sections unless otherwise specified. For more images and high-resolution zoom tool, please visit the Products section on www.dako.com.

Autostainer Link 48 Installers
DakoLink users can download Installers, which will update specific DakoLink database protocols.

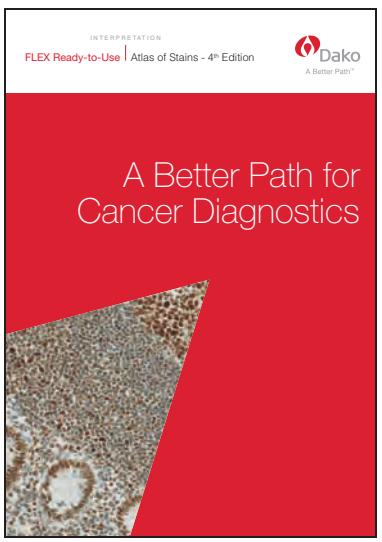
Go to the www.dako.com/installer and locate the antibody code number/protocol in question, click the link to download the Installer to a portable device, e.g. a USB flash drive, and transfer the file to the DakoLink Server computer. Read the full installation guide before beginning the update process.

Overview of FLEX Ready-to-Use Antibodies

FLEX Ready-to-Use (RTU) antibodies are pre-diluted primary antibodies specifically developed for automated use while maintaining the high-quality staining performance that Dako's antibodies are known for. Each FLEX RTU antibody has been developed with focus on delivering a consistent, high-quality staining performance with just one flexible staining protocol. The staining performance of all antibodies has been defined, tested and approved through collaboration with leading international pathologists.

For each FLEX RTU antibody, one protocol is recommended to obtain optimal staining results. The quality of the stainings has been reviewed by a group of expert pathologists. In our Atlas of Stains guide book, we present staining images of high and low-expression structures as well as of recommended control tissues.

In the following, the FLEX RTU antibodies are presented in tables according to organ or tissue type. This is done to ease and enhance the selection of antibodies for relevant markers to examine the expression pattern in the different tissue or organ types.



FLEX RTU Antibodies

- Deliver a high-quality staining performance reviewed and accepted by leading pathologists
- Provide a basis for consistency
- Improve overall laboratory efficiency
- Increase productivity

Content

1. Breast Tissue
2. Endocrine System
3. Gastrointestinal Tract
4. Kidney and Urinary Tract
5. Liver, Biliary System and Exocrine Pancreas
6. Lymphatic Tissue and Bone Marrow
7. Mesothelial Surfaces
8. Nervous System
9. Prostate
10. Reproductive System
11. Respiratory System
12. Skeletal Muscles
13. Skin
14. Soft Tissue and Bones
15. Undifferentiated Tumors

For product descriptions, staining images, package inserts and contact information for local Dako representatives, please visit: www.dako.com.

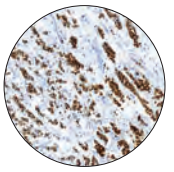
Terms and Conditions for Use of Target-Specific FLEX Ready-to-Use Tables

The Target-Specific FLEX Ready-to-Use tables are by no means intended as a replacement of the professional judgment of a certified pathologist. The contents of the tables should not be regarded as indicative of a standard procedure for diagnosis or treatment. The products mentioned in the Target-Specific FLEX Ready-to-Use tables should be used by qualified personnel only. The user of such products should refer to the Package Inserts accompanying the selected Dako product. Dako and its partners cannot be held responsible for the use of products in any other way than described in the Package Inserts, or for conclusions drawn based on results obtained with our products.

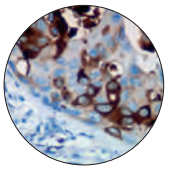
Dako does not claim or make warranties that the information provided in the Target-Specific FLEX Ready-to-Use tables are valid everywhere, since there are differences in the acceptance of the relevance of various markers between countries and pathologists and in the standard operating procedures used.

FLEX RTU Antibodies | Breast Tissue

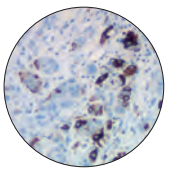
Page	Anti-	Clone
76	BCL2 Oncoprotein	124
78	Caldesmon	h-CD
83	CD31, Endothelial Cell	JC70A
83	CD34 Class II	QBEnd 10
90	Cytokeratin 8/18	EP17/EP30
92	E-Cadherin	NCH-38
94	Epithelial Membrane Antigen	E29
95	Estrogen Receptor α	1D5
95	Estrogen Receptor α	EP1
97	Gross Cystic Disease Fluid Protein-15	23A3
101	Ki-67 Antigen	MIB-1
103	Mammaglobin	304-1A5
57	Muscle Actin	HHF35
107	Myosin Heavy Chain, Smooth Muscle	SMMS-1
109	p53 Protein	DO-7
109	p63 Protein	DAK-p63
111	Progesterone Receptor	PgR 636
113	S100	Polyclonal
74	Smooth Muscle Actin	1A4



Breast carcinoma stained with FLEX Anti-Estrogen Receptor α, Code IR084/IS084.



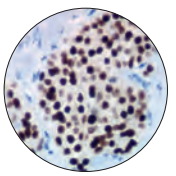
Breast ductal carcinoma stained with Anti-Gross Cystic Disease Fluid Protein-15, Code IR077/IS077.



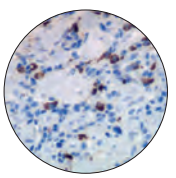
Breast ductal carcinoma stained with Anti-Mammaglobin,Code IR074/IS074.

FLEX RTU Antibodies | Endocrine System

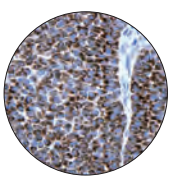
Page	Anti-	Clone
	General neuroendocrine markers	
85	CD56	123C3
107	Neuron-Specific Enolase	BBS/NC/VI-H14
113	S100	Polyclonal
114	Synaptophysin	DAK-SYNAP
	Alimentary tract and pancreas	
88	CDX2	DAK-CDX2
96	Gastrin	Polyclonal
100	Insulin	Polyclonal
	Gonades	
88	Chorionic Gonadotropin	Polyclonal
100	Inhibin α	R1
103	Melan-A	A103
	Pituitary glands	
88	Chorionic Gonadotropin	Polyclonal
	Thyroid and parathyroid glands	
78	Calcitonin	Polyclonal
114	Thyroglobulin	Polyclonal
115	Thyroid Transcription Factor, TTF-1	8G7G3/1



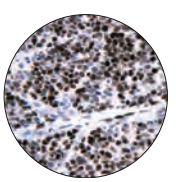
Gastrointestinal carcinoma stained wit hAnti-CDX2, Code IR080/IS080.



Insulinoma stained with Anti-Insulin, Code IR002/IS002.



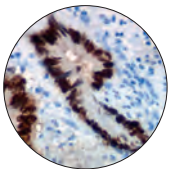
Granulosa cell tumor stained with Anti-Melan A, Code IR633/IS633.



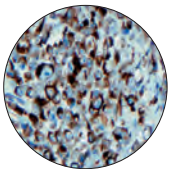
Lung small cell carcinoma stained with Anti-Thyroid Transcription Factor, Code IR056/IS056.

FLEX RTU Antibodies | Gastrointestinal Tract

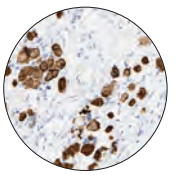
Page	Anti-	Clone
77	Beta-Catenin	β-Catenin-1
78	Calretinin	DAK-Calret 1
84	CD45, Leucocyte Common Antigen	2B11 + PD7/26
88	CDX2	DAK-CDX2
92	Desmin	D33
92	E-Cadherin	NCH-38
104	MUC2	CCP58
105	MUC5AC	CLH2
105	MutL Protein Homolog 1	ES05
105	MutS Protein Homolog 2	FE11
106	MutS Protein Homolog 6	EP49
107	Neurofilament Protein	2F11
107	Neuron-Specific Enolase	BBS/NC/VI-H14
109	p53 Protein	DO-7
110	Podoplanin	D2-40
111	Postmeiotic Segregation Increased 2	EP51
113	S100	Polyclonal
74	Smooth Muscle Actin	1A4
116	Villin	1D2 C3
117	Vimentin	V9



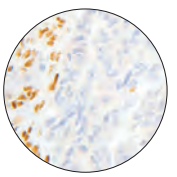
Colon adenocarcinoma stained with Anti-CDX2, Code IR080/IS080.



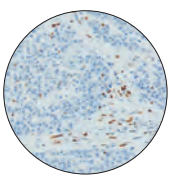
Rhabdomyosarcoma stained with Anti-Desmin, Code IR606/IS606.



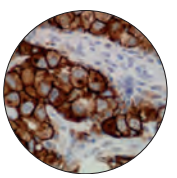
Colon adenocarcinoma (FFPE) metastatic to the ovary stained with FLEX Anti-MUC2, Code IR658.



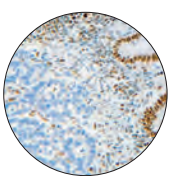
Colon adenocarcinoma (FFPE) with loss of MSH2 protein stained with FLEX Anti-MSH2, Code IR085.



Colon adenocarcinoma (FFPE) with loss of MSH6 protein stained with FLEX Anti-MSH6, Code IR086.



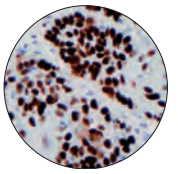
Epitheloid mesothelioma stained with Anti-Podoplanin, Code IR072/IS072.



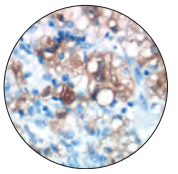
Colon adenocarcinoma (FFPE) with loss of PMS2 protein stained with FLEX Anti-PMS2, Code IR087.

FLEX RTU Antibodies | Kidney and Urinary Tract

Page	Anti-	Clone
81	CD10	56C6
94	Epithelial Membrane Antigen	E29
101	Ki-67 Antigen	MIB-1
103	Melan-A	A103
109	p53 Protein	DO-7
113	Renal Cell Carcinoma Marker	SPM314
113	S100	Polyclonal
113	S100 + Tyrosinase + Melan-A	Polyclonal + T311 + A103
74	Smooth Muscle Actin	1A4
117	Vimentin	V9



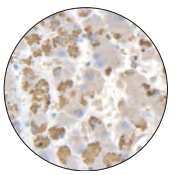
Transitional carcinoma of the bladder stained with Anti-p53 Protein, Code IR616/IS616.



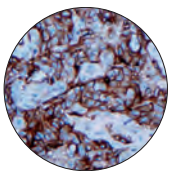
Renal cell carcinoma stained with Anti-Renal Cell Carcinoma Marker, Code IR075/IS075.

FLEX RTU Antibodies | Liver, Biliary System and Exocrine Pancreas

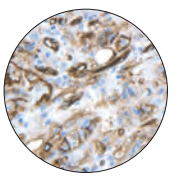
Page	Anti-	Clone
74	Alpha-1-Antitrypsin	Polyclonal
75	Alpha-1-Fetoprotein	Polyclonal
77	CA 125	M11
81	CD10	56C6
83	CD31, Endothelial Cell	JC/70A
83	CD34 Class II	QBEnd 10
88	CDX2	DAK-CDX2
94	Epithelial Membrane Antigen	E29
98	Hepatocyte	OCH1E5
101	Ki-67 Antigen	MIB-1
109	p53 Protein	DO-7
111	Progesterone Receptor	PgR 636
74	Smooth Muscle Actin	1A4



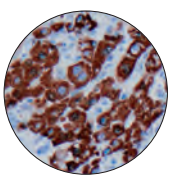
A1AT deficient liver stained with Anti-Alpha-1-Antitrypsin, Code IR505/IS505.



Hemangiosarcoma stained with Anti-CD31, Endothelial Cell, Code IR610/IS610.



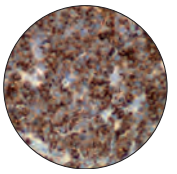
Angiosarcoma stained with Anti-CD34, Class II, Code IR632/IS632.



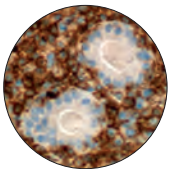
Hepatocellular carcinoma stained with Anti-Hepatocyte, Code IR624/IS624.

FLEX RTU Antibodies | Lymphatic Tissue and Bone Marrow

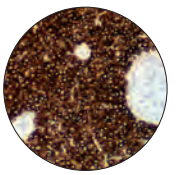
Page	Anti-	Clone
76	B-Cell-Specific Activator Protein	DAK-Pax-5
76	BCL2 Oncoprotein	124
76	BCL6 Protein	PG-B6p
79	CD1a	010
79	CD2	AB75
79	CD3	Polyclonal
119	CD3 + CD20cy	Polyclonal + L26
80	CD4	4B12
80	CD5	4C7
80	CD7	CBC.37
81	CD8	C8/144B
81	CD10	56C6
81	CD15	Carb-3
82	CD19	LE-CD19
82	CD20cy	L26
82	CD21	1F8
82	CD23	DAK-CD23
83	CD30	Ber-H2
83	CD31, Endothelial Cell	JC70A
83	CD34 Class II	QBEnd 10
84	CD43	DF-T1
84	CD45, Leucocyte Common Antigen	2B11 + PD7/26
85	CD56	123C3
85	CD57	TB01
85	CD68	KP1
85	CD68	PG-M1
86	CD79α	JCB117
87	CD138	MI15
87	CD246, ALK Protein	ALK1
88	Cyclin D1	EP12
94	Epithelial Membrane Antigen	E29
99	IgA	Polyclonal
99	IgD	Polyclonal
99	IgG	Polyclonal
100	IgM	Polyclonal
100	Kappa Light Chains	Polyclonal
101	Ki-67 Antigen	MIB-1
101	Lambda Light Chains	Polyclonal
105	MUM1 Protein	MUM1p
106	Myeloperoxidase	Polyclonal
108	Nucleophosmin	376
113	S100	Polyclonal
114	Terminal Deoxynucleotidyl Transferase	EP266
117	Von Willebrand Factor	Polyclonal
118	ZAP-70	2F3.2



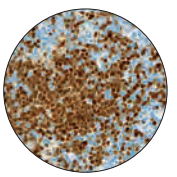
Precursor T-cell lymphoblastic lymphoma/leukemia stained with Anti-CD2, Code IR651/IS651.



Anaplastic large cell lymphoma stained with Anti-CD4, Code IR649/IS649.



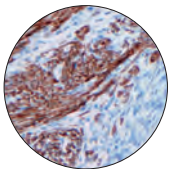
Precursor B-cell lymphoblastic lymphoma/leukemia stained with Anti-CD10, Code IR648/IS648.



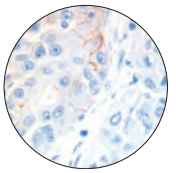
Mantle cell lymphoma stained with Anti-Cyclin D1, Code IR083/IS083.

FLEX RTU Antibodies | Mesothelial Surfaces

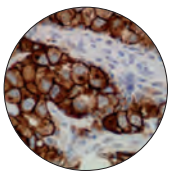
Page	Anti-	Clone
77	CA 125	M11
78	Calretinin	DAK-Calret 1
78	Carcinoembryonic Antigen	II-7
79	Carcinoembryonic Antigen	Polyclonal
92	Desmin	D33
93	Epithelial Antigen	Ber-EP4
94	Epithelial Membrane Antigen	E29
110	Podoplanin	D2-40
74	Smooth Muscle Actin	1A4
117	Vimentin	V9
117	Wilms' Tumor 1 Protein	6F-H2



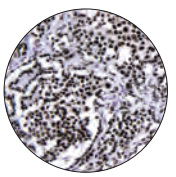
Uterine leiomyoma stained with Anti-Desmin, Code IR606/IS606.



Mesothelioma stained with Anti-Epithelial Antigen, Code IR637/IS637.



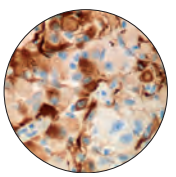
Mesothelioma stained with Anti-Podoplanin, Code IR072/IS072.



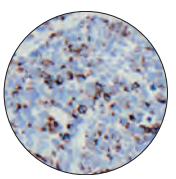
Mesothelioma stained with Anti-Wilms' Tumor 1 Protein, Code IR055/IS055.

FLEX RTU Antibodies | Nervous System

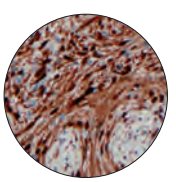
Page	Anti-	Clone
84	CD45, Leucocyte Common Antigen	2B11 + PD7/26
89	Cytokeratin	AE1/AE3
94	Epithelial Membrane Antigen	E29
96	Glial Fibrillary Acidic Protein	6F2
107	Neurofilament Protein	2F11
113	S100	Polyclonal
114	Synaptophysin	DAK-SYNAP



Astrocytoma stained with Anti-Glial Fibrillary Acidic Protein, Code IR524/IS524.



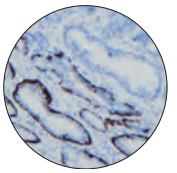
Merkel cell carcinoma stained with Anti-Neurofilament Protein, Code IR607/IS607.



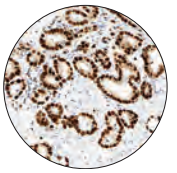
Schwannoma stained with Anti-S100, Code IR504/IS504.

FLEX RTU Antibodies | Prostate

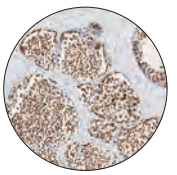
Page	Anti-	Clone
75	AMACR	13H4
119	AMACR + Cytokeratin HMW + Cytokeratin 5/6	13H4 + 34βE12 + D5/16 B4
89	Cytokeratin 5/6	D5/16 B4
94	ERG	EP111
101	Ki-67 Antigen	MIB-1
109	p53 Protein	DO-7
109	p63 Protein	DAK-p63
112	Prostate-Specific Antigen	Polyclonal
112	Prostate-Specific Membrane Antigen	3E6
112	Prostein	10E3



Prostate hyperplasia and prostate carcinoma stained with Anti-Cytokeratin 5/6, Code IR780/IS780.



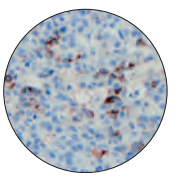
Prostate adenocarcinoma (FFPE) stained with FLEX Anti-ERG, Code IR659.



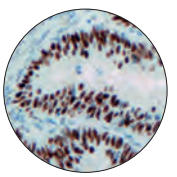
Prostate adenocarcinoma (FPPE) stained with FLEX Anti-Prostein, Code IR088.

FLEX RTU Antibodies | Reproductive System

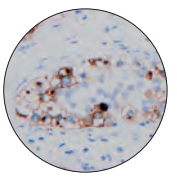
Page	Anti-	Clone
75	Alpha-1-Fetoprotein	Polyclonal
77	CA 125	M11
78	Calretinin	DAK-Calret 1
78	Carcinoembryonic Antigen	II-7
79	Carcinoembryonic Antigen	Polyclonal
88	CDX2	DAK-CDX2
94	Epithelial Membrane Antigen	E29
94	ERCC1	4F9
100	Inhibin α	R1
101	Ki-67 Antigen	MIB-1
103	Melan-A	A103
104	Melanosome	HMB-45
108	Octamer-Binding Transcription Factor 3/4	N1NK
109	p53 Protein	DO-7
110	Placental Alkaline Phosphatase	8A9
111	Progesterone Receptor	PgR 636
113	S100	Polyclonal
74	Smooth Muscle Actin	1A4
114	Synaptophysin	DAK-SYNAP
117	Vimentin	V9
117	Wilms' Tumor 1 Protein	6F-H2



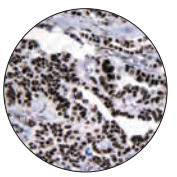
Yolk sac tumor stained with Anti-Alpha-1-Fetoprotein, Code IR500/IS500.



Serous ovarian carcinoma stained with Anti-p53 Protein, Code IR616/IS616.



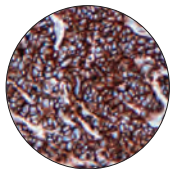
Intratubular germ cell tumor stained with Anti-Placental Alkaline Phosphatase, Code IR779/IS779.



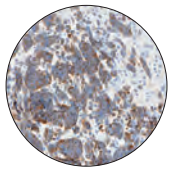
Serous ovarian adenocarcinoma stained with Anti-Wilms' Tumor 1 Protein, Code IR055/IS055.

FLEX RTU Antibodies | Respiratory System

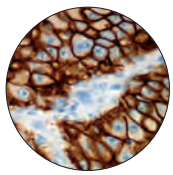
Page	Anti-	Clone
78	Calretinin	DAK-Calret 1
78	Carcinoembryonic Antigen	II-7
79	Carcinoembryonic Antigen	Polyclonal
85	CD56	123C3
93	Epithelial Antigen	Ber-EP4
94	Epithelial Membrane Antigen	E29
94	ERCC1	4F9
101	Ki-67 Antigen	MIB-1
109	p53 Protein	DO-7
109	p63 Protein	DAK-p63
110	Podoplanin	D2-40
110	Pneumocystis Jiroveci	3F6
113	S100	Polyclonal
114	Synaptophysin	DAK-SYNAP
115	Thyroid Transcription Factor, TTF-1	8G7G3/1
117	Vimentin	V9



Small cell carcinoma of the lung stained with Anti-CD56, Code IR628/IS628.



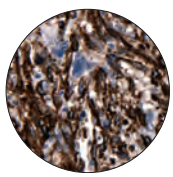
Small cell lung cancer (FFPE) stained with FLEX Anti-Synaptophysin, Code IR660.



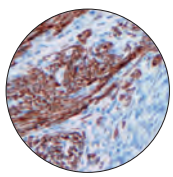
Lung adenocarcinoma stained with Anti-Epithelial Antigen, Code IR637/IS637.

FLEX RTU Antibodies | Skeletal Muscles

Page	Anti-	Clone
78	Caldesmon	h-CD
92	Desmin	D33
74	Muscle Actin	HHF35
107	Myogenin	F5D
107	Myosin Heavy Chain, Smooth Muscle	SMMS-1
74	Smooth Muscle Actin	1A4



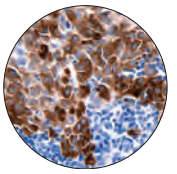
Leiomyosarcoma stained with Anti-Caldesmon, Code IR054/IS054.



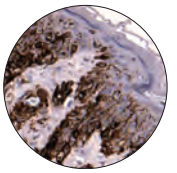
Leiomyosarcoma stained with Anti-Desmin, Code IR606/IS606.

FLEX RTU Antibodies | Skin

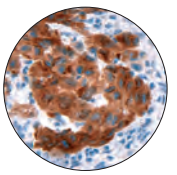
Page	Anti-	Clone
84	CD45, Leucocyte Common Antigen	2B11 + PD7/ 26
92	E-Cadherin	NCH-38
94	Epithelial Membrane Antigen	E29
103	Melan-A	A103
104	Melanosome	HMB-45
113	S100	Polyclonal
120	S100 + Tyrosinase + Melan-A	Polyclonal + T311 + A103
74	Smooth Muscle Actin	1A4
114	Synaptophysin	DAK-SYNAP
116	Tyrosinase	T311



Melanoma stained with Anti-Melan-A, Code IR633/IR633.



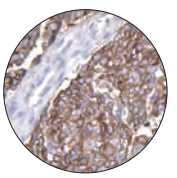
Melanoma stained with Anti-Melanosome, Code IR052/IS052.



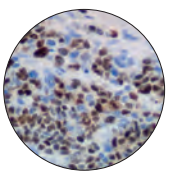
Malignant melanoma stained with Anti-Tyrosinase, Code IR061/IS061.

FLEX RTU Antibodies | Soft Tissue and Bones

Page	Anti-	Clone
83	CD31, Endothelial Cell	JC70A
83	CD34 Class II	QBEnd 10
85	CD68	KP1
86	CD68	PG-M1
86	CD99, MIC2 Gene Products, Ewing's Sarcoma Marker	12E7
92	Desmin	D33
94	Epithelial Membrane Antigen	E29
101	Ki-67 Antigen	MIB-1
103	Melan-A	A103
104	Melanosome	HMB-45
74	Muscle Actin	HHF35
107	Myogenin	F5D
107	Myosin Heavy Chain, Smooth Muscle	SMMS-1
109	p53 Protein	DO-7
110	Podoplanin	D2-40
113	S100	Polyclonal
74	Smooth Muscle Actin	1A4
114	Synaptophysin	DAK-SYNAP
117	Vimentin	V9
117	Von Willebrand Factor	Polyclonal
117	Wilms' Tumor 1 Protein	6F-H2



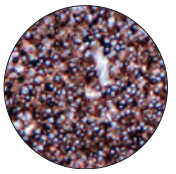
Ewing's sarcoma stained with Anti-CD99, Code IR057/IS057.



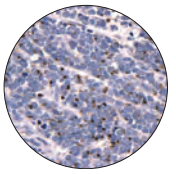
Rhabdomyosarcoma (FFPE) stained with FLEX Anti-Myogenin, Code IR067/IS067.

FLEX RTU Antibodies | Undifferentiated Tumors

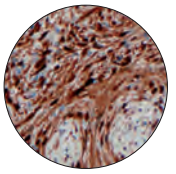
Page	Anti-	Clone
84	CD45, Leucocyte Common Antigen	2B11 + PD7/26
89	Cytokeratin	AE1/AE3
113	S100	Polyclonal
117	Vimentin	V9



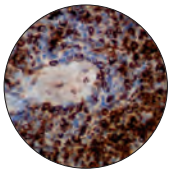
Acute myeloid leukemia stained with Anti-CD45, Code IR751/IS751.



Merkel cell tumor stained with Anti-Cytokeratin, Code IR053/IS053.



Schmannoma stained with Anti-S100, Code IR504/IS504.



B-cell chronic lympocytic lymphoma stained with Anti-Vimentin, Code IR630/IS630.

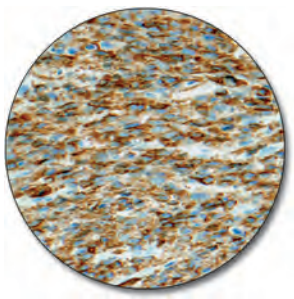
Monoclonal Mouse Anti-Human
Actin (Muscle)

Clone: HHF35
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0635	Culture supernatant	1 mL
CE	IR700	RTU★, FLEX	60 tests, 12 mL▲
CE	IS700	RTU★, FLEX	30 tests, 6 mL△

Labels myocardial, skeletal and smooth muscle cells as well as myoepithelial cells. It also reacts with 'myofibroblasts' in the stroma of certain tumors. The antibody is a useful aid for classification of rhabdomyosarcomas, leiomyomas and leiomyosarcomas, and many carcinomas.



Leiomyosarcoma (FFPE) stained with FLEX Anti-Actin (Muscle), Code IR700/IS700.

Monoclonal Mouse Anti-
Actin (Sarcomeric)

Clone: Alpha-Sr-1
Isotype: IgM, kappa

● Frozen ● Formalin ● HIER

CE	M0874	Culture supernatant	1 mL

Reacts with human sarcomeric actin expressed in striated and cardiac muscle cells. Results aid in the classification of neoplasms derived from these types of cells. Sarcomeric actin from rabbit has been used for immunization.

Monoclonal Mouse Anti-Human
Actin (Smooth Muscle)

Clone: 1A4
Isotype: IgG2a, kappa

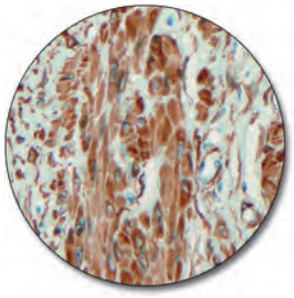
● Frozen ● Formalin ● HIER

CE	M0851	Culture supernatant	0.2 mL/1 mL
CE	IR611	RTU★, FLEX	60 tests, 12 mL▲
CE	IS611	RTU★, FLEX	30 tests, 6 mL△

This antibody labels smooth muscle cells, myofibroblasts and myoepithelial cells. It is a useful aid for classification of leiomyomas, leiomyosarcomas (1), and pleomorphic adenomas (2).

References:

1. Rizeq MN, van de Rijn M, Hendrickson MR, Rouse RV. A comparative immunohistochemical study of uterine smooth muscle neoplasms with emphasis on the epithelioid variant. Hum Pathol 1994;25:671-7.
2. Brennan PA, Umar T, Zaki GA, Langdon JD, Spedding A, Buckley J, et al. Are myoepithelial cells responsible for the widespread expression of inducible nitric oxide synthase in pleomorphic adenoma? An immunohistochemical study. J Oral Pathol Med 2000;29:279-83.



Leiomyosarcoma (FFPE) stained with FLEX Anti-Actin (Smooth Muscle), Code IR611/IS611.

Monoclonal Mouse Anti-
Adrenocorticotropin (ACTH)

Clone: 02A3
Isotype: IgG1, kappa

● Frozen ● Formalin

CE	M3501	Culture supernatant	1 mL

Is specific for the C-terminal sequence of ACTH (ACTH 24-39) and was found not to cross-react with bLPH by radioimmunoassay. The antibody labels corticotrophs in the adenohypophysis. It may be a useful aid for classification of pituitary adenomas and for classification of primary and metastatic tumors of the pituitary.

Monoclonal Rabbit Anti-Human
Akt-pS473, Phosphorylation Site Specific

Clone: 14-5

● Frozen ● Formalin ● HIER

RUO	M3628	Culture supernatant	1 mL

This monoclonal rabbit antibody labels activated Akt protein that is phosphorylated at serine residue 473. Akt, also known as protein kinase B (PKB) or Rac-α, is a serine/threonine protein kinase that functions as an important regulator of various cell processes including apoptosis, proliferation, differentiation and metabolism. Akt is a critical downstream effector of PI3-kinase (PI-3K), which mediates signal transduction initiated by a variety of stimuli including hormones, growth factors and cytokines. PI-3K activates Akt through a second messenger, which results in phosphorylation of Akt at threonine 308 and at serine 473 by upstream protein kinases. Activated Akt phosphorylates a number of protein substrates including BAD, caspase-9, forkhead transcription factors, GSK-3-α-β, CREB and mTOR/FRAP.

Polyclonal Rabbit Anti-Human
Albumin

● Formalin

CE	F0117	FITC. Ig fraction	2 mL

ALK Protein

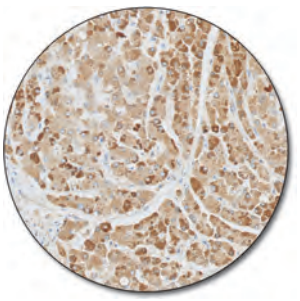
See: CD246, ALK Protein

Polyclonal Rabbit Anti-Human
Alpha-1-Antitrypsin

● Formalin ● Enzyme

CE	GA505	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR505	RTU★, FLEX	60 tests, 12 mL▲
CE	IS505	RTU★, FLEX	30 tests, 6 mL△

Alpha-1-antitrypsin (A1AT) is a 51 kDa glycoprotein mainly synthesized in the liver. It is an acute phase protein and functions as a major inhibitor of serine proteases. A1AT is present in normal liver cells, histiocytes and monocytes, and in a large variety of tumors of both epithelial and mesenchymal differentiation.



A1AT-deficient liver (FFPE) stained with FLEX Anti-Alpha-1-Antitrypsin, Code GA505.

Dako FLEX RTU Antibodies for Liver/Biliary/Pancreas Testing

See our panel of FLEX antibodies at page 67

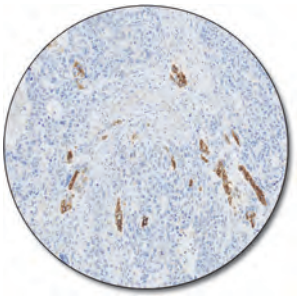
◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Polyclonal Rabbit Anti-Human
Alpha-1-Fetoprotein

● Formalin ● HIER

CE	A0008	Ig fraction	0.2 mL
CE	GA500	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR500	RTU★, FLEX	60 tests, 12 mL▲
CE	IS500	RTU★, FLEX	30 tests, 6 mL△

Alpha-1-fetoprotein (AFP) is a 70 kDa glycoprotein, synthesized by the cells of the embryonic yolk sac, fetal liver and fetal intestinal tract. Expression of AFP has been demonstrated in many hepatocellular carcinomas and in gonadal and extragonadal germ cells tumors, including yolk sac tumors. The antibody is a useful aid for classification of neoplastic liver diseases, yolk sac tumors and mixed germ cell tumors.



Embryonal carcinoma (FFPE) stained with FLEX Anti-Alpha-1-Fetoprotein, Code GA500, on Dako Omnis.

Monoclonal Rabbit Anti-Human
AMACR

Clone: 13H4

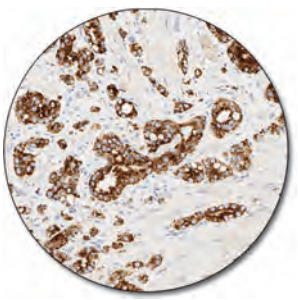
● Frozen ● Formalin ● HIER

CE	M3616	Culture supernatant	0.2 mL/1 mL
CE	GA060	RTU★, FLEX	60 tests, 12 mL◆
CE	IR060	RTU★, FLEX	60 tests, 12 mL▲
CE	IS060	RTU★, FLEX	30 tests, 6 mL△

Recognizes a 382-amino-acid protein, alpha-methylacyl-CoA racemase (AMACR), that was identified by cDNA library subtraction in conjunction with high throughput microarray screening of prostate adenocarcinomas. AMACR, also known as P504S, is an enzyme that is involved in bile acid biosynthesis and β-oxidation of branched-chain fatty acids. Results aid in the classification of premalignant high-grade prostatic intraepithelial neoplasia (HGPIN) and prostate adenocarcinoma (1). AMACR is present at low or undetectable levels in glandular epithelial cells of normal and benign hyperplastic prostates.

Reference:

1. Luo J, Zha S, Gage WR, Dunn TA, Hicks JL, Bennett CJ, et al. Alpha-methylacyl-CoA racemase: a new molecular marker for prostate cancer. Cancer Res 2002;62:220-6.



Prostate adenocarcinoma (FFPE) stained with FLEX Anti-AMACR, Code GA060, on Dako Omnis.

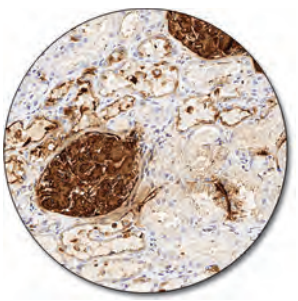
Monoclonal Mouse Anti-Human
Amyloid A

Clone: mc1
Isotype: IgG2a, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M0759	Culture supernatant	1 mL
CE	GA605	RTU★, FLEX	60 tests, 12 mL◆
CE	IR605	RTU★, FLEX	60 tests, 12 mL▲
CE	IS605	RTU★, FLEX	30 tests, 6 mL△

Amyloid A (AA) is an extracellular deposited insoluble fibrillar protein, highly resistant to proteolytic degradation. Such deposition is common for a group of disease known as amyloidosis. The antibody is a useful aid for the identification and classification of AA-amyloidosis.



Kidney with amyloidosis (FFPE) stained with FLEX Anti-Amyloid A, Code GA605, on Dako Omnis.

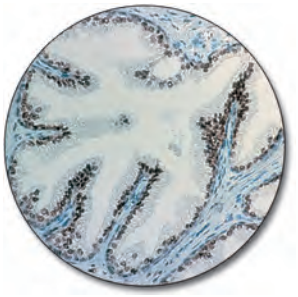
Monoclonal Mouse Anti-Human
Androgen Receptor

Clone: AR441
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3562	Culture supernatant	1 mL

Labels the nuclei of cells known to contain the androgen receptor. In Western blot, the antibody identifies a 110 and 112 kDa doublet in extracts of the metastatic prostate cancer cell line, LNCap, and in extracts of cells transfected with the gene for androgen receptor.



Benign prostatic hyperplasia (FFPE) stained with Anti-Androgen Receptor, Code M3562.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
B-Cell-Specific Activator Protein

Clone: DAK-Pax5
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7307 Culture supernatant	1 mL
CE	GA650 RTU★, FLEX	60 tests, 12 mL◆
CE	IR650 RTU★, FLEX	60 tests, 12 mL▲
CE	IS650 RTU★, FLEX	30 tests, 6 mL△

B-cell-specific activator protein, BSAP, also known as Pax-5, is a transcription factor expressed in B cells. Antibodies to BSAP may be useful for the identification of pro, pre, and mature B cells and for classification of lymphomas and subclassification of classic Hodgkin's lymphoma and anaplastic large cell lymphoma of the T and null-cell type.

Lymph node (FFPE) stained with FLEX Anti-BSAP, Code GA650, on Dako Omnis.

Monoclonal Mouse Anti-Human
BCL2 Oncoprotein

Clone: 124
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0887 Culture supernatant	0.2 mL/1 mL
CE	IR614 RTU★, FLEX	60 tests, 12 mL▲
CE	IS614 RTU★, FLEX	30 tests, 6 mL△

Reacts with the BCL2 oncoprotein encoded by a gene involved in the t(14;18) chromosomal translocation. The BCL2 oncoprotein plays a central role in apoptosis. The antibody may be a useful aid for classification of follicular lymphomas and various diffuse lymphoproliferative diseases (1).

Reference:

1. Pezzella F, Tse AGD, Cordell JL, Pulford KAF, Gatter KC, Mason DY. Expression of the *bcl-2* oncogene protein is not specific for the 14;18 chromosomal translocation. Am J Pathol 1990;137:225-32.

Follicular lymphoma (FFPE) stained with FLEX Anti-BCL2 Oncoprotein, Code IR614/IS614.

Monoclonal Mouse Anti-Human
BCL6 Protein

Clone: PG-B6p
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7211 Culture supernatant	0.2 mL/1 mL
CE	GA625 RTU★, FLEX	60 tests, 12 mL◆
CE	IR625 RTU★, FLEX	60 tests, 12 mL▲
CE	IS625 RTU★, FLEX	30 tests, 6 mL△

The *BCL6* gene encodes a 706 amino acid nuclear protein of the Kruppel-type zinc finger protein. It is rearranged in about 30% of diffuse large B-cell lymphomas, and is expressed predominantly in normal germinal centre B cells and related lymphomas . The antibody is a useful aid for classification of follicular lymphomas, diffuse large B-cell lymphomas, Burkitt's lymphomas, and nodular, lymphocyte-predominance Hodgkin's lymphoma. The BCL6 antibody, together with BCL2 antibody, is also a useful aid in classification of mantle cell lymphomas, and nodular, lymphocyte-predominance Hodgkin's lymphoma. BCL6 protein is not expressed in B-CLL, hairy cell leukemia, mantle cell and marginal-zone derived lymphomas (1, 2).

References:

1. Flenghi L, Bigerna B, Fizzotti M, Venturi S, Pasqualucci L, Pileri S, et al. Monoclonal antibodies PG-B6a and PG-B6p recognize, respectively, a highly conserved and a formol-resistant epitope on the human BCL-6 protein amino-terminal region. Am J Pathol 1996;148:1543-55.
2. Falini B, Bigerna B, Pasqualucci L, Fizzotti M, Martelli MF, Pileri S, et al. Distinctive expression pattern of the BCL-6 protein in nodular lymphocyte predominance Hodgkin's disease. Blood 1996;87:465-71.

Follicular lymphoma (FFPE) stained with FLEX Anti-BCL6, Code GA625, on Dako Omnis.

Monoclonal Mouse Anti-Human
BCL10 Protein

Clone: 151
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M7260 Culture supernatant	0.2 mL

BCL10 is an apoptotic regulatory molecule identified through its direct involvement in t(1;14) of mucosa-associated lymphoid tissue (MALT) lymphoma. The antibody labels subpopulations of normal B and T cells and is a useful aid for subclassification of MALT lymphomas (1).

Reference:

1. Ye H, Dogan A, Karran L, Willis TG, Chen L, Wlodarska I, et al. BCL10 expression in normal and neoplastic lymphoid tissue. Nuclear localization in MALT lymphoma. Am J Pathol 2000;157:1147-54.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
Beta-Amyloid

Clone: 6F/3D
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M0872 Culture supernatant	1 mL

Labels deposits of beta-amyloid in senile plaques of brain tissue from patients with Alzheimer's disease. Formalin-fixed, paraffin-embedded tissue sections must be treated with formic acid prior to the immunohistochemical staining.

Monoclonal Mouse Anti-Human
Beta-Catenin

Clone: β-Catenin-1
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3539 Culture supernatant	1 mL
CE	GA702 RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR702 RTU★, FLEX	60 tests, 12 mL▲
CE	IS702 RTU★, FLEX	30 tests, 6 mL△

Beta-catenin is an 88 kDa multifunctional protein playing an essential role in cell-cell adhesion by binding to the transmembrane protein, cadherin. Beta-catenin is also involved in the regulation of gene expression as a mediator of the Wnt signaling pathway. The expression and intracellular localization of beta-catenin is altered in many types of cancers.

Colon adenocarcinoma (FFPE) stained with FLEX Anti-Beta-Catenin, Code GA702, on Dako Omnis.

Monoclonal Mouse Anti-
Bromodeoxyuridine

Clone: Bu20a
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

RUO	M0744 Culture supernatant	1 mL

Binds to cells which have incorporated bromodeoxyuridine into their DNA during the S-phase of the cell cycle.

Polyclonal Rabbit Anti-Human
C1q Complement

● Frozen ● Formalin

CE	F0254 FITC. Ig fraction	2 mL

Polyclonal Rabbit Anti-Human
C3c Complement

● Formalin

CE	F0201 FITC. Ig fraction	2 mL

The antigen used for immunization is C3c. Thus the antibody reacts both with C3c as well as with the C3c part of native C3 and C3b. There is no reaction with C3d and C3a.

Polyclonal Rabbit Anti-Human
C4c Complement

CE	F0169 FITC. Ig fraction	2 mL

Monoclonal Mouse Anti-Human
C5b-9 (TCC)

Clone: aE11
Isotype: IgG2a, kappa

● Frozen

RUO	M0777 Culture supernatant	1 mL

The antibody is directed against a neoepitope formed by poly (C9) in the terminal complement complex (TCC). It reacts both with the membrane-bound C5b-9(m) and the fluid-phase (SC5b-9) complexes.

Monoclonal Mouse Anti-Human
CA 19-9

Clone: 1116-NS-19-9
Isotype: IgG1, kappa

● Formalin

CE	M3517 Ascites	1 mL

Reacts with sialylated Le^a-active pentasaccharide (sialylated lacto-N-fucopentaose II) which is enzymatically synthesized by sialylation of type 1 carbohydrate chains. The CA 19-9 antigen has been immunohistochemically demonstrated in ductal epithelium of the breast, kidney, salivary glands and sweat glands. The antibody reacts with epithelium of the lung and the colon, pancreatic acini and ducts, biliary epithelium in the liver and ductal epithelium of the prostate. Results aid in the classification of gastrointestinal carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas.

Monoclonal Mouse Anti-Human
CA 125

Clone: M11
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M3520 Ascites	1 mL
CE	GA701 RTU★, FLEX	60 tests, 12 mL◆
CE	IR701 RTU★, FLEX	60 tests, 12 mL▲
CE	IS701 RTU★, FLEX	30 tests, 6 mL△

Recognizes a mucin-like glycoprotein larger than 200 kDa, expressing the CA 125 epitope. The antibody is a useful aid for classification of a variety of tumors, such as some adenocarcinomas of the colon, breast carcinomas, malignant mesothelioma, uterine adenomatoid tumor, lung bronchoalveolar carcinoma, and ovarian endometrioid and serous carcinomas. Results may also aid in the classification of adenocarcinomas (1).

Reference:

1. Neal S. Goldstein, MD. Immunophenotypic characterization of 225 prostate adenocarcinomas with intermediate or high Gleason scores. Am J Clin Pathol 2002;117:471-7.

Ovarian carcinoma (FFPE) stained with FLEX Anti-CA 125, Code GA701, on Dako Omnis.

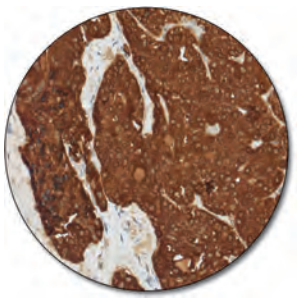
◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Polyclonal Rabbit Anti-Human
Calcitonin

● Formalin ● HIER

CE	A0576	Ig fraction	1 mL
CE	GA515	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR515	RTU★, FLEX	60 tests, 12 mL▲
CE	IS515	RTU★, FLEX	30 tests, 6 mL△

Calcitonin is a 32 amino acid peptide hormone, produced in the parafollicular C cells of the thyroid. Calcitonin acts through its receptors, causing osteoclast-mediated bone resorption and calcium excretion by the kidney. The antibody is useful for the identification of calcitonin-producing C cells and is a useful aid for classification of medullary thyroid carcinoma.



Thyroid medullary carcinoma (FFPE) stained with FLEX Anti-Calcitonin, Code GA515, on Dako Omnis.

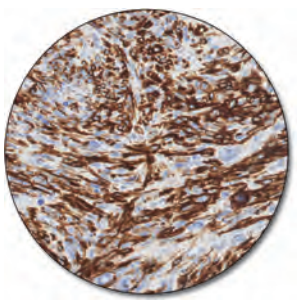
Monoclonal Mouse Anti-Human
Caldesmon

Clone: h-CD
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme + HIER

CE	M3557	Culture supernatant	1 mL
CE	GA054	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR054	RTU★, FLEX	60 tests, 12 mL▲
CE	IS054	RTU★, FLEX	30 tests, 6 mL△

Caldesmon is a smooth muscle-specific protein involved in the regulation of smooth muscle contraction. The antibody recognizes the high molecular mass variant of caldesmon (h-caldesmon) and does not react with the non-muscle variant.



Leiomyosarcoma (FFPE) stained with FLEX Anti-Caldesmon, Code GA054, on Dako Omnis.

Monoclonal Mouse Anti-Human
Calponin

Clone: CALP
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme + HIER

CE	M3556	Culture supernatant	1 mL

Calponin is a developmentally regulated protein thought to play a role in the regulation of the thin filament-associated system of smooth muscle contraction. On Western blots, the antibody reacts with a 34 kDa protein (calponin) found in tissue extracts from smooth muscle, but not in fibroblast extracts.

Fibroadenoma (FFPE) stained with Anti-Calponin, Code M3556.

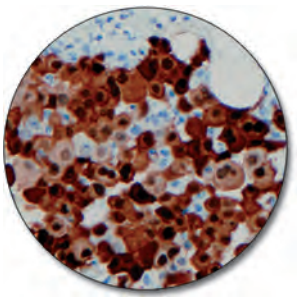
Monoclonal Mouse Anti-Human
Calretinin

Clone: DAK-Calret 1
Isotype: IgG1, kappa

● Formalin ● Enzyme/HIER

CE	M7245	Culture supernatant	0.2 mL/1 mL
CE	IR627	RTU★, FLEX	60 tests, 12 mL▲
CE	IS627	RTU★, FLEX	30 tests, 6 mL△

Calretinin is a 32 kDa member of the superfamily of calcium-binding proteins. It is abundantly expressed in central and peripheral neural tissues, particularly in the retina and in the neurons of the sensory pathways, and calretinin may play an important role in the survival of nerve cells during disturbances in calcium homeostasis. Calretinin is also expressed by mesothelial cells, and the antibody is a useful aid for classification of malignant mesotheliomas of the epithelial type.



Mesothelioma (FFPE) stained with FLEX Anti-Calretinin, Code IR627/IS627.

Monoclonal Mouse Anti-Human
Carcinoembryonic Antigen (CEA)

Clone: II-7
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

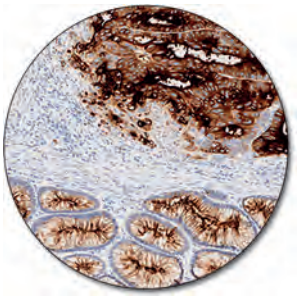
CE	M7072	Culture supernatant	0.2 mL/1 mL
CE	GA622	RTU★, FLEX	60 tests, 12 mL◆
CE	IR622	RTU★, FLEX	60 tests, 12 mL▲
CE	IS622	RTU★, FLEX	30 tests, 6 mL△

Monoclonal antibodies to CEA have been classified into five essentially non-interacting epitope groups, designated Gold 1 to 5. Dako Anti-CEA, clone II-7, belongs to epitope group Gold 1 and shows a high degree of CEA specificity (1). The antibody is a useful aid for classification of adenocarcinomas, notably in the gastrointestinal tract, including colonic and pancreatic carcinomas. Results also aid in the classification of secretory meningiomas (2) and medullary carcinoma of the thyroid (3).

References:

1. Nap M, Hammarström ML, Börmer O, Hammarström S, Wagener C, Handt S, et al. Specificity and affinity of monoclonal antibodies against carcinoembryonic antigen. Cancer Res 1992;52:2329-39.
2. Probst-Cousin S, Villagran-Lillo R, Lahl R, Bergmann M, Schmid KW, Gullotta F. Secretory meningioma. Clinical, histologic, and immunohistochemical findings in 31 cases. Cancer 1997;79:2003-15.
3. Uribe M, Fenoglio-Preisler CM, Grimes M, Feind C. Medullary carcinoma of the thyroid gland. Am J Surg Pathol 1985;9:577-94.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections



Colon adenocarcinoma (FFPE) stained with FLEX Anti-CEA, Code GA622, on Dako Omnis.

Polyclonal Rabbit Anti-Human
Carcinoembryonic Antigen (CEA)

● Formalin ● Enzyme

CE	GA526	RTU★, FLEX	60 tests, 12 mL◆
CE	IR526	RTU★, FLEX	60 tests, 12 mL▲
CE	IS526	RTU★, FLEX	30 tests, 6 mL△

The antibody has been absorbed with blood group antigens A and B, and insolubilized normal human plasma. The antibody shows a strong reaction with CEA and CEA-like proteins, such as CEACAM1 (biliary glycoprotein, BGP1) and CEACAM6 (non-specific cross-reacting antigen, NCA).

Reference:

1. Sheahan K, O'Brien MJ, Burke B, Dervan PA, O'Keane JC, Gottlieb LS, et al. Differential reactivities of carcinoembryonic antigen (CEA) and CEA-related monoclonal and polyclonal antibodies in common epithelial malignancies. Am J Clin Pathol 1990;94:157-64.

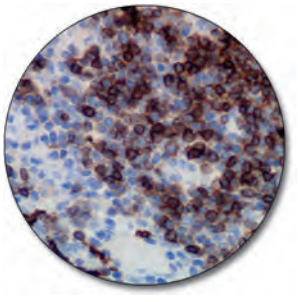
Monoclonal Mouse Anti-Human
CD1a

Clone: 010
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3571	Culture supernatant	1 mL
CE	IR069	RTU★, FLEX	60 tests, 12 mL▲
CE	IS069	RTU★, FLEX	30 tests, 6 mL△

CD1a, a member of the CD1 antigen family, is a non-polymorphic MHC class I-related cell surface glycoprotein expressed in association with $ß_2$-microglobulin. Langerhans' cells, interdigitating dendritic cells and medullary thymocytes in thymic medulla are labeled by anti-CD1a. This antibody is a useful aid for classification of thymomas and malignancies of T-cell precursors.



Thymoma (FFPE) stained with FLEX Anti-CD1a, Code IR069/IS069.

Monoclonal Mouse Anti-Human
CD2

Clone: AB75
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M7309	Culture supernatant	1 mL
CE	GA651	RTU★, FLEX	60 tests, 12 mL◆
CE	IR651	RTU★, FLEX	60 tests, 12 mL▲
CE	IS651	RTU★, FLEX	30 tests, 6 mL△

CD2 is a transmembrane glycoprotein that is considered a pan-T-cell antigen expressed on the majority of thymocytes and virtually all peripheral T lymphocytes. The antibody may be a useful aid for classification of peripheral T-cell lymphoma, anaplastic large cell lymphoma and precursor T-cell lymphoma.

Precursor T-lymphoblastic lymphoma (FFPE) stained with FLEX Anti-CD2, Code GA651, on Dako Omnis.

Monoclonal Mouse Anti-Human
CD3

Clone: F7.2.38
Isotype: IgG1, kappa

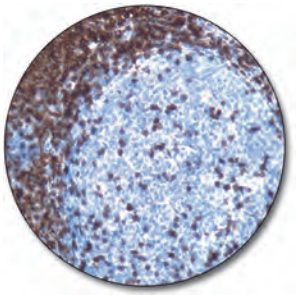
● Frozen ● Formalin ● HIER

CE	M7254	Culture supernatant	0.2 mL/1 mL

CD3 is expressed by peripheral T cells, thymocytes, and activated natural killer cells. The antibody is a useful aid for classification of T-cell neoplasms. The antibody recognizes an epitope on the intracytoplasmic portion of the ε-chain of CD3. The performance of the F7.2.38 antibody is comparable to Dako Polyclonal Rabbit Anti-Human CD3, Code A0452 (1).

Reference:

1. Alibaud L, Llobera R, Al Saati T, March M, Delsol G, Rubin B. A new monoclonal anti-CD3ε antibody reactive on paraffin sections. J Histochem Cytochem 2000;48:1609-16.



Tonsil (FFPE) stained with Anti-CD3, Code M7254.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Polyclonal Rabbit Anti-Human
CD3

● Frozen ● Formalin ● HIER

CE	A0452	Affinity isolated	0.2 mL/1 mL
CE	GA503	RTU★, FLEX	60 tests, 12 mL◆
CE	IR503	RTU★, FLEX	60 tests, 12 mL▲
CE	IS503	RTU★, FLEX	30 tests, 6 mL△

Synthetic peptide from the intracellular part of the ε-chain of human CD3 was coupled to bovine thyroglobulin and used for immunization. The antibody is a pan-T cell marker for identification of T cells. It is well-suited for labeling reactive T cells in tissue with lymphoid infiltrates, and for classification of T-cell neoplasms. The antibody shows a stronger labeling intensity than corresponding monoclonal antibodies to CD3, and should, generally, be preferred on formalin-fixed, paraffin-embedded tissue sections.

T-cell lymphoma (FFPE) stained with FLEX Anti-CD3, Code GA503, on Dako Omnis.

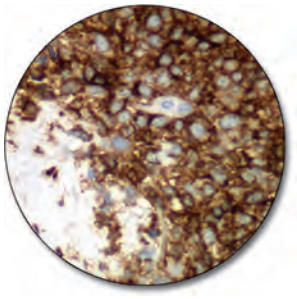
Monoclonal Mouse Anti-Human
CD4

Clone: 4B12
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7310	Culture supernatant	0.2 mL/1 mL
CE	IR649	RTU★, FLEX	60 tests, 12 mL▲
CE	IS649	RTU★, FLEX	30 tests, 6 mL△

CD4 is a transmembrane glycoprotein, expressed on normal thymocytes, T-helper cells, majority of mature peripheral T cells, and a subset of suppressor or cytotoxic T cells. CD4 is not found on immature thymocytes. The antibody is a useful aid for classification of anaplastic large cell lymphomas, unspecified peripheral T-cell lymphomas and mycosis fungoides.



Peripheral T-cell lymphoma (FFPE) stained with FLEX Anti-CD4, Code IR649/IS649.

Monoclonal Mouse Anti-Human
CD5

Clone: 4C7
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M3641	Culture supernatant	1 mL
CE	IR082	RTU★, FLEX	60 tests, 12 mL▲
CE	IS082	RTU★, FLEX	30 tests, 6 mL△

Reacts with CD5 expressed on B and T cells and may be a useful aid for theclassification of B and T-cell malignancies. This includes B-cell chronic lymphoid leukemia (B-CLL), B-cell small lymphocytic lymphoma (B-SLL), mantle cell lymphoma (MCL) and T-cell lymphoma and leukemia.

Mantle cell lymphoma (FFPE) stained with FLEX Anti-CD5, Code IR082/IS082.

Monoclonal Mouse Anti-Human
CD7

Clone: CBC.37
Isotype: IgG2b, kappa

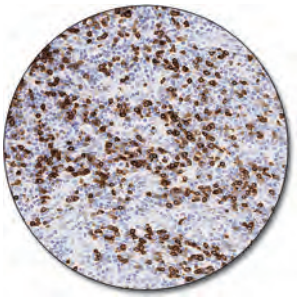
● Frozen ● Formalin ● HIER

CE	M7255	Culture supernatant	1 mL
CE	GA643	RTU★, FLEX	60 tests, 12 mL◆
CE	IR643	RTU★, FLEX	60 tests, 12 mL▲
CE	IS643	RTU★, FLEX	30 tests, 6 mL△

CD7 is expressed by the majority of peripheral blood T cells, NK cells, and all thymocytes. It is one of the earliest surface antigens on T and NK-cell lineages. The antibody is a useful aid for classification of T-cell malignancies (1).

Reference:

1. Al Saati T, Alibaud L, Lamant L, Boyes J, March M, Delsol G. A new monoclonal anti-CD7 antibody reactive on paraffin sections. Appl Immunohistochem Mol Morphol 2001;9:289-96.



Lymphoma (FFPE) stained with FLEX Anti-CD7, Code GA643, on Dako Omnis.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

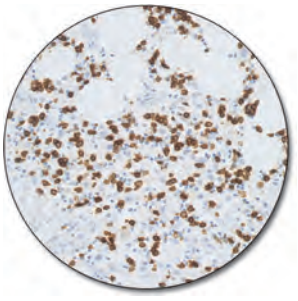
Monoclonal Mouse Anti-Human
CD8

Clone: C8/144B
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7103 Culture supernatant	1 mL
CE	GA623 RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR623 RTU★, FLEX	60 tests, 12 mL▲
CE	IS623 RTU★, FLEX	30 tests, 6 mL△

CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by class I major histocompatibility complex restricted, mature, suppressor/cytotoxic T cells. The antibody is a useful aid for classification of cytotoxic/suppressor T-cell lymphomas.



Angioimmunoblastic T-cell lymphoma (FFPE) stained with FLEX Anti-CD8, Code GA623, on Dako Omnis.

Monoclonal Mouse Anti-Human
CD10

Clone: 56C6
Isotype: IgG1

● Formalin ● HIER

CE	M7308 Culture supernatant	0.2 mL/1 mL
CE	GA648 RTU★, FLEX	60 tests, 12 mL◆
CE	IR648 RTU★, FLEX	60 tests, 12 mL▲
CE	IS648 RTU★, FLEX	30 tests, 6 mL△

CD10 is a cell surface metallopeptidase, expressed on early lymphoid progenitor cells and on a small subset of immature B cells in bone marrow, but is lost as the cells reach maturation. CD10 is, however, re-expressed on proliferating B cells and mature neutrophils. Various non-lymphoid cells, including bile canaliculi and renal glomerular and tubular epithelial cells are also CD10-positive. The antibody may be a useful aid for classification of Burkitt's lymphoma, follicular lymphoma except grade III, precursor B-cell acute lymphoblastic leukemia, and clear cell renal cell carcinoma. Futhermore, CD10 antibodies may also be a useful aid in the subclassification of the mature T-cell neoplasia subtype and angioimmunoblastic T-cell lymphoma. Anti-CD10, Clone 56C6, is well-suited for use on formalin-fixed tissue sections.

Reference:
1. Attygalle A, Al-Jehani R, Diss TC, Munson P, Liu H, Du M-Q, et al. Neoplastic T cells in angioimmunoblastic T-cell lymphoma express CD10. Blood 2002;99:627-33.

Lymphoma (FFPE) stained with FLEX Anti-CD10, Code GA648, on Dako Omnis.

Dako FLEX RTU Antibodies for Kidney/Urinary Tract Testing

See our panel of FLEX antibodies at page 67

Monoclonal Mouse Anti-Human
CD14

Clone: TÜK4
Isotype: IgG2a, kappa

● Frozen

CE	M0825 Culture supernatant	1 mL

CD14 is a 55 kDa protein which functions as a receptor for the complex of lipopolysaccharide (LPS) and LPS-binding protein (LBP). CD14 is primarily expressed on monocytes and macrophages. The antibody is a useful aid for classification of neoplastic cells of the monocytic cell lineage.

Reference:
1. Wright SD, Ramos RA, Tobias PS, Ulevitch RJ, Mathison JC. CD14, a receptor for complexes of lipopolysaccharide (LPS) and LPS binding protein. Science 1990;249:1431-3.

Monoclonal Mouse Anti-Human
CD15

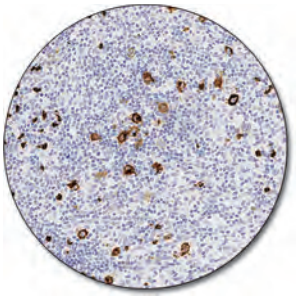
Clone: Carb-3
Isotype: IgM

● Frozen ● Formalin ● HIER

CE	M3631 Culture supernatant	0.2 mL/1 mL
CE	GA062 RTU★, FLEX	60 tests, 12 mL◆
CE	IR062 RTU★, FLEX	60 tests, 12 mL▲
CE	IS062 RTU★, FLEX	30 tests, 6 mL△

Reacts with a carbohydrate antigen, termed Lewis X (Lex), X hapten or CD15 antigen, expressed on Reed-Sternberg cells and various other cell types including myeloid cells and epithelial cells. Results aid in the classification of acute myeloid leukemia and chronic myelogenous leukemia, as well as carcinomas derived from various organs (1). The antibody is of value in the identification of Reed-Sternberg cells for classification of Hodgkin's lymphoma.

Reference:
1. Arber DA, Weiss LM. CD15: a review. Applied Immunohistochem 1993;1:17-30.



Hodgkin's Lymphoma (FFPE) stained with FLEX Anti-CD15, Code GA062, on Dako Omnis.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
CD19

Clone: LE-CD19
Isotype: IgG1, kappa

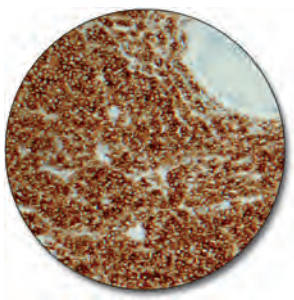
● Frozen ● Formalin ● HIER

CE	M7296	Culture supernatant	0.2 mL
CE	IR656	RTU★, FLEX	60 tests, 12 mL▲
CE	IS656	RTU★, FLEX	30 tests, 6 mL△

CD19 is the broadest lineage-specific surface marker for B cells. CD19 is present on the surface of virtually all B lymphocytes, including early B-progenitor cells, but it is lost upon terminal differentiation to plasma cells. CD19 is also expressed on follicular dendritic cells (1). Results aid in the classification of B-lineage leukemias and lymphomas.

References:

1. Sato S, Tedder TF. BC3. CD19 workshop panel report. In: Kishimoto T, Kikutani H, von dem Borne AEG, Goyert SM, Mason DY, Miyasaka M, et al., editors. Leucocyte typing VI. White cell differentiation antigens. Proceedings of the 6th International Workshop and Conference; 1996 Nov 10-14; Kobe, Japan. New York, London: Garland Publishing Inc.; 1997. p. 133-5.
2. Scheuermann RH, Racila E. CD19 antigen in leukaemia and lymphoma diagnosis and immunotherapy (review). Leuk Lymphoma 1995;18:385-97.



Precursor B-cell lymphoblastic leukemia/lymphoma (FFPE) stained with FLEX Anti-CD19, Code IR656/IS656.

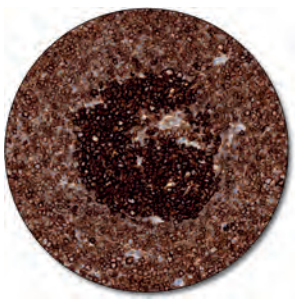
Monoclonal Mouse Anti-Human
CD20cy

Clone: L26
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

CE	M0755	Culture supernatant	0.2 mL/1 mL
CE	GA604	RTU★, FLEX	60 tests, 12 mL◆
CE	IR604	RTU★, FLEX	60 tests, 12 mL▲
CE	IS604	RTU★, FLEX	30 tests, 6 mL△

CD20 is a transmembrane, non-glycosylated protein expressed on B-cell precursors and mature B cells, but is lost following differentiation into plasma cells. In resting B cells, CD20 appears in a 33 kDa non-phosphorylated form. After mitogen stimulation, CD20 becomes heavily phosphorylated (35-37 kDa isoforms), and it is a dominant phosphoprotein in activated B cells. The antibody reacts with an intracytoplasmic epitope localized on the CD20 antigen and labels cells of the B-cell lineage. It is a useful aid for classification of neoplasms of B-cell derivation.



B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma (FFPE) stained with FLEX Anti-CD20cy, Code GA604, on Dako Omnis.

Dako FLEX RTU Antibodies for Lymphatic Tissue Testing

See our panel of FLEX antibodies at page 68

Monoclonal Mouse Anti-Human
CD21

Clone: 1F8
Isotype: IgG1, kappa

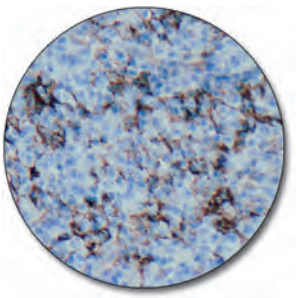
● Frozen ● Formalin ● HIER

CE	M0784	Culture supernatant	1 mL
CE	IR608	RTU★, FLEX	60 tests, 12 mL▲
CE	IS608	RTU★, FLEX	30 tests, 6 mL△

CD21 is a transmembrane glycoprotein belonging to a family of complement regulatory proteins. It is expressed by follicular dendritic cells (FDC) and mature B cells, as well as by several types of epithelial cells. The antibody is a useful aid for classification of malignant lymphomas. Furthermore, the antibody may be useful for the subclassification of mature T-cell lymphoma of the angioimmunoblastic subtype.

References:

1. Bagdi E, Krenacs L, Krenacs T, Miller K, Isaacson PG. Follicular dendritic cells in reactive and neoplastic lymphoid tissues: a reevaluation of staining patterns of CD21, CD23, and CD35 antibodies in paraffin sections after wet heat-induced epitope retrieval. Appl Immunohistochem Mol Morphol 2001;9:117-24.
2. Troxell ML, Schwartz EJ, van de Rijn M, Ross DT, Warnke RA, Higgins JP, et al. Follicular dendritic cell immunohistochemical markers in angioimmunoblastic T-cell lymphoma. Appl Immunohistochem Mol Morphol 2005;13:297-303.



Follicular lymphoma (FFPE) stained with FLEX Anti-CD21, Code IR608/IS608.

Monoclonal Mouse Anti-Human
CD23

Clone: DAK-CD23
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

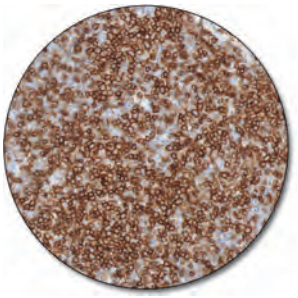
CE	M7312	Culture supernatant	1 mL
CE	GA781	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR781	RTU★, FLEX	60 tests, 12 mL▲
CE	IS781	RTU★, FLEX	30 tests, 6 mL△

CD23 is primarily expressed on B cells and monocytes, including a strong expression on Epstein-Barr Virus-transformed B lymphoblasts. Anti-CD23 is a useful aid for classification of CD23-positive B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma (1).

Reference:

1. Rossi S, Laurino L, Furlanetto A, Chinellato S, Orvieto E, Canal F, et al. Rabbit monoclonal antibodies: a comparative study between a novel category of immunoreagents and the corresponding mouse monoclonal antibodies. Am J Clin Pathol 2005;124:295-302.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections



Chronic lymphocytic leukemia/ small lymphocytic lymphoma (FFPE) stained with FLEX Anti-CD23, Code GA781, on Dako Omnis.

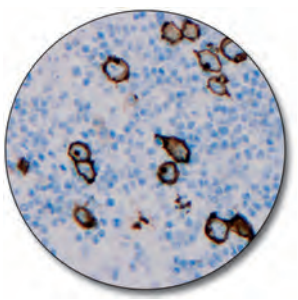
Monoclonal Mouse Anti-Human
CD30

Clone: Ber-H2
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0751	Culture supernatant	0.2 mL/1 mL
CE	IR602	RTU★, FLEX	60 tests, 12 mL▲
CE	IS602	RTU★, FLEX	30 tests, 6 mL△

CD30 is a transmembrane cytokine receptor belonging to the tumor necrosis factor (TNF) receptor superfamily. Mature CD30 has a molecular mass of 120 kDa. The intracellular part of CD30 possesses kinase activity, indicating a role in differentation and/or proliferation. CD30 expression is found on Hodgkin's and Reed-Sternberg cells, and on activated B and T lymphocytes. CD30 is also expressed by embryonal carcinoma cells. This antibody is a useful aid for the classification of anaplastic large cell lymphoma.



Hodgkin's lymphoma (FFPE) stained with FLEX Anti-CD30, Code IR602/IS602.

Monoclonal Mouse Anti-Human
CD31, Endothelial Cell

Clone: JC70A
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0823	Culture supernatant	0.2 mL/1 mL
CE	GA610	RTU★, FLEX	60 tests, 12 mL◆
CE	IR610	RTU★, FLEX	60 tests, 12 mL▲
CE	IS610	RTU★, FLEX	30 tests, 6 mL△

Reacts with a 130 kDa glycoprotein, also designated platelet endothelial cell adhesion molecule-1 (PECAM-1). The antibody strongly labels endothelial cells and is a useful aid for classification of neoplasms arising from endothelial cells.

References:

1. Parums DV, Cordell JL, Micklem K, Heryet AR, Gatter KC, Mason DY. JC70: a monoclonal antibody that detects vascular endothelium associated antigen on routinely processed tissue sections. J Clin Pathol 1990;43:572-7.
2. Kuzu I, Bicknell R, Harris AL, Jones M, Gatter KC, Mason DY. Heterogeneity of vascular endothelial cells with relevance to diagnosis of vascular tumours. J Clin Pathol 1992;45:143-8.
3. Ohsawa M, Naka N, Tomita Y, Kawamori D, Kanno H, Aozasa K. Use of immunohistochemical procedures in diagnosing angiosarcoma. Evaluation of 98 cases. Cancer 1995;75:2867-74.

Angiosarcoma (FFPE) stained with FLEX Anti-CD31, Code GA610, on Dako Omnis.

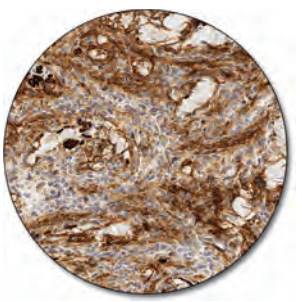
Monoclonal Mouse Anti-Human
CD34 Class II

Clone: QBEnd 10
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M7165	Culture supernatant	0.2 mL/1 mL
CE	GA632	RTU★, FLEX	60 tests, 12 mL◆
CE	IR632	RTU★, FLEX	60 tests, 12 mL▲
CE	IS632	RTU★, FLEX	30 tests, 6 mL△

CD34 is a single-chain transmembrane protein of approximately 116 kDa, expressed on immature hematopoietic stem/progenitor cells, capillary endothelial cells, embryonic fibroblasts and rare glial cells in nervous tissue. CD34 is a stage-specific, rather than a lineage-specific, leucocyte differentiation antigen. The antibody is a useful aid for classificaction of vascular and lymphatic tumors and for the subclassification of leukemias.



Angiosarcoma (FFPE) stained with FLEX Anti-CD34,Code GA632, on Dako Omnis.

Monoclonal Mouse Anti-Human
CD35

Clone: Ber-MAC-DRC
Isotype: IgG1, kappa

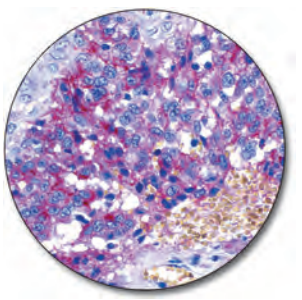
● Frozen ● Formalin ● HIER

CE	M0846	Culture supernatant	1 mL

Reacts with a formalin-resistant epitope of the receptor (CR1) for the C3b fragment of human complement C3. The antibody is well-suited for the demonstration of follicular dendritic cells.

Reference:

1. Yamakawa M, Imay Y. Complement activation in the follicular light zone of human lymphoid tissues. Immunology 1992;76:378-84.



Follicular dendritic cell sarcoma (FFPE) stained with Anti-CD35, Code M0846.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

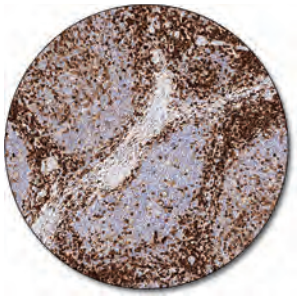
Monoclonal Mouse Anti-Human
CD43

Clone: DF-T1
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0786 Culture supernatant	1 mL
CE	GA636 RTU★, FLEX	60 tests, 12 mL◆
CE	IR636 RTU★, FLEX	60 tests, 12 mL▲
CE	IS636 RTU★, FLEX	30 tests, 6 mL△

CD43 is an integral membrane protein typically expressed at high levels on all leucocytes, except most resting B lymphocytes. Antibodies to CD43 may be a useful aid for the classification of low-grade B-cell lymphomas and myeloid disorders.



Tonsil (FFPE) stained with FLEX Anti-CD43, Code GA636, on Dako Omnis.

Monoclonal Mouse Anti-Human
CD44, Phagocytic Glycoprotein-1

Clone: DF1485
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7082 Culture supernatant	1 mL

CD44 is an adhesion molecule, which binds hyaluronic acid and participates in a number of cell-cell interactions, including lymphocyte homing. CD44 is expressed on approximately 90% of lymphocytes, monocytes, granulocytes, and, in lower amounts on thymocytes, fibroblasts, and erythrocytes. Platelets lack CD44. In non-hematopoietic tissues, CD44 is widely distributed.

Reference:

1. Horny HP, Menke DM, Kaiserling E. Neoplastic human tissue mast cells express the adhesion molecule CD44/HCAM. Virchows Arch 1996;429:91-4.

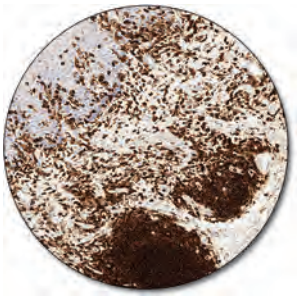
Monoclonal Mouse Anti-Human
CD45, Leucocyte Common Antigen

Clone: 2B11 + PD7/26
Isotype: IgG1, kappa + IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0701 Culture supernatant	0.2 mL/1 mL
CE	GA751 RTU★, FLEX	60 tests, 12 mL◆
CE	IR751 RTU★, FLEX	60 tests, 12 mL▲
CE	IS751 RTU★, FLEX	30 tests, 6 mL△

CD45 is a transmembrane glycoprotein expressed on most nucleated cells of hematopoetic origin. On human leucocytes, five different isoforms of CD45 have been identified, named ABC, AB, BC, B and 0. Clone 2B11 reacts with all known isotypes of the CD45 family and clone PD7/26 has been clustered as anti-CD45RB. The antibody is a useful aid for classification of lymphoid neoplasms.



Tonsil (FFPE) stained with FLEX Anti-CD45, Code GA751, on Dako Omnis.

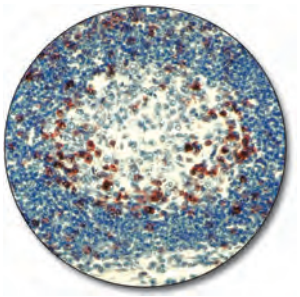
Monoclonal Mouse Anti-Human
CD45R0

Clone: UCHL1
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

CE	M0742 Culture supernatant	1 mL

CD45 is a transmembrane glycoprotein expressed on most nucleated cells of hematopoetic origin. On human leucocytes, five different isoforms of CD45 have been identified, named ABC, AB, BC, B and 0. This antibody reacts with an epitope unique for CD45R0. The antibody labels most thymocytes, a subpopulation of resting T cells within both CD4 and CD8 subsets, and mature, activated T cells. It is effective on formalin-fixed, paraffin-embedded tissue sections. Results aid in the classification of T-cell neoplasms.



Lymph node (FFPE) stained with Anti-CD45R0, Code M0742.

Monoclonal Mouse Anti-Human
CD45RA

Clone: 4KB5
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0754 Culture supernatant	1 mL

Labels most B cells in peripheral blood and tissue sections. A small proportion of T cells and monocytes is also labeled.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

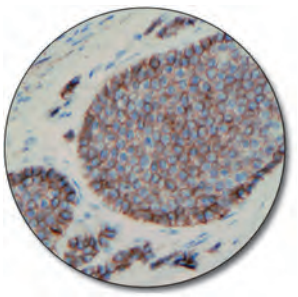
Monoclonal Mouse Anti-Human
CD56

Clone: 123C3
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7304	Culture supernatant	0.2 mL/1 mL
CE	IR628	RTU★, FLEX	60 tests, 12 mL▲
CE	IS628	RTU★, FLEX	30 tests, 6 mL△

Reacts with natural killer cells and a subset of CD4+ and CD8+ T cells in peripheral blood. The antibody is a useful aid for classification of CD56+ T/NK-cell lymphomas. Outside the hematopoietic system, CD56 is expressed in a number of tumors, including neuroblastomas and small cell lung cancer (SCLC).



Carcinoid tumor (FFPE) stained with FLEX Anti-CD56, Code IR628/IS628.

Monoclonal Mouse Anti-Human
CD57

Clone: TB01
Isotype: IgM, kappa

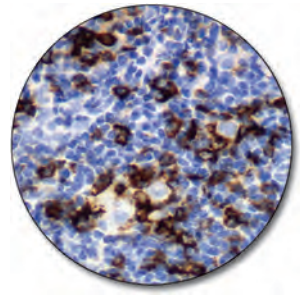
● Formalin ● HIER

CE	M7271	Culture supernatant	0.2 mL
CE	IR647	RTU★, FLEX	60 tests, 12 mL▲
CE	IS647	RTU★, FLEX	30 tests, 6 mL△

CD57 is expressed by subsets of NK cells and CD8+ lymphocytes, and by a small percentage of CD4+/CD45R0+ T lymphocytes in lymph node germinal centres. The number of CD57+ cells increases in some pathologies characterized by an imbalance of CD4/CD8 lymphocytes. Normal neuroectodermal cells and striated muscle also express CD57. Antibodies to CD57 may be a useful aid for classification of T-cell large granular lymphocyte disorders, oligodendrogliomas and neuroendocrine tumors, and may also aid in the classification of lymphocyte predominant Hodgkin's lymphoma.

Reference:

1. Funaro A, Malavasi F. NK5. CD57 Workshop panel report. In: Kishimoto T, Kikutani H, von dem Borne AEG, Goyert SM, Mason DY, Miyasaka M, et al., editors. Leucocyte typing VI. White cell differentiation antigens. Proceedings of the 6th International Workshop and Conference; 1996 Nov 10-14; Kobe, Japan. New York, London: Garland Publishing Inc.; 1997. p. 274-6.



Hodgkin's lymphoma, lymphocyte predominant subtype, (FFPE) stained with FLEX Anti-CD57, Code IR647/IS647.

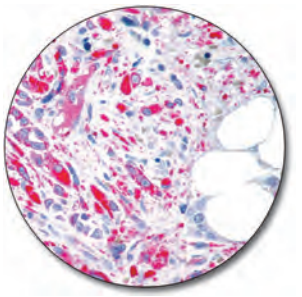
Monoclonal Mouse Anti-Human
CD61, Platelet Glycoprotein IIIa

Clone: Y2/51
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M0753	Culture supernatant	1 mL

Platelet glycoprotein IIIa (GpIIIa) is identical to the β3-integrin subunit, which can associate with the αV-chain (CD51) to form vitronectin receptor, or with the αIIb-chain (CD41) to form the GpIIb/GpIIIa complex (CD41/CD61). The antibody detects platelets in smears of blood and bone marrow, as well as megakaryocytes in frozen sections and cell smears. The antibody is a useful aid for classification of megakaryoblastic leukemia.



Acute megakaryoblastic (M7) leukemia (FFPE) stained with Anti-CD61, Code M0753.

Monoclonal Mouse Anti-Human
CD68

Clone: EBM11
Isotype: IgG1, kappa

● Frozen

RUO	M0718	Culture supernatant	1 mL

Labels human monocytes and macrophages and can be used for identifying a population of cells as being of mononuclear phagocyte origin and for demonstrating the macrophage origin of giant cells.

Monoclonal Mouse Anti-Human
CD68

Clone: KP1
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M0814	Culture supernatant	1 mL
CE	GA609	RTU★, FLEX	60 tests, 12 mL◆
CE	IR609	RTU★, FLEX	60 tests, 12 mL▲
CE	IS609	RTU★, FLEX	30 tests, 6 mL△

Labels human monocytes, macrophages and myeloid cells. It is of value for demonstrating reactive macrophages in a wide variety of normal and pathological specimens and for the identification of myeloid and histiocytic cells. Results aid in the classification of neoplasms of myeloid and macrophage/monocyte origin.

Tonsil (FFPE) stained with FLEX Anti-CD68, Code GA609, on Dako Omnis.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

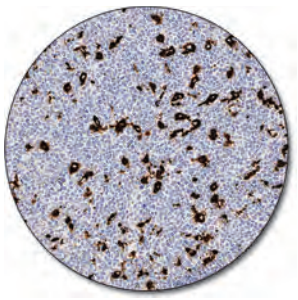
Monoclonal Mouse Anti-Human
CD68

Clone: PG-M1
Isotype: IgG3, kappa

● Frozen ● Formalin ● (Enzyme)/HIER

CE	M0876	Culture supernatant	0.2 mL/1 mL
CE	GA613	RTU★, FLEX	60 tests, 12 mL◆
CE	IR613	RTU★, FLEX	60 tests, 12 mL▲
CE	IS613	RTU★, FLEX	30 tests, 6 mL△

Labels human monocytes and macrophages, but not myeloid cells. The antibody is of value for demonstration of monocytes and macrophages in normal and pathological specimens. Results aid in the classification of acute myeloid leukemia (AML), and histiocytic sarcoma.



Tonsil (FFPE) stained with FLEX Anti-CD68, Code GA613, on Dako Omnis.

Monoclonal Mouse Anti-Human
CD79α

Clone: JCB117
Isotype: IgG1, kappa

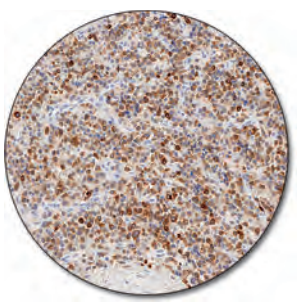
● Frozen ● Formalin ● HIER

CE	M7050	Culture supernatant	0.2 mL/1 mL
CE	GA621	RTU★, FLEX	60 tests, 12 mL◆
CE	IR621	RTU★, FLEX	60 tests, 12 mL▲
CE	IS621	RTU★, FLEX	30 tests, 6 mL△

CD79α is encoded by the mb-1 gene and was previously called Igα. The antibody recognizes an extracellular epitope expressed on the CD79α molecule. Results aid in the classification of B-cell neoplasms in routine biopsy material. In addition to the expression in B cells, CD79α has been found to be co-expressed with CD3 in 10% of cases of T-lymphoblastic leukemia/lymphoma. Antibodies to CD79α may also be a useful aid for classification of Hodgkin's disease.

References:

1. Mason DY, Cordell JL, Brown MH, Borst J, Jones M, Pulford K, et al. CD79a: a novel marker for B-cell neoplasms in routinely processed tissue samples. Blood 1995;86:1453-9.
2. Pilozzi E, Pulford K, Jones M, Muller-Hermelink HK, Falini B, Ralfkiaer E, et al. Co-expression of CD79a (JCB117) and CD3 by lymphoblastic lymphoma. J Pathol 1998;186:140-3.
3. Chu PG, Arber DA. CD79: a review. Appl Immunohistochem Mol Morphol 2001;9:97-106



Plasmacytoma (FFPE) stained with FLEX Anti-CD79α Code GA621, on Dako Omnis.

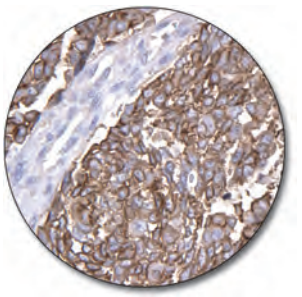
Monoclonal Mouse Anti-Human
CD99, MIC2 Gene Products, Ewing's Sarcoma Marker

Clone: 12E7
Isotype: IgG1, kappa

● Frozen ● Formalin

CE	M3601	Culture supernatant	1 mL
CE	IR057	RTU★, FLEX	60 tests, 12 mL▲
CE	IS057	RTU★, FLEX	30 tests, 6 mL△

The MIC2 gene products are also called p30/32mic2. They are expressed on the cell membrane of some lymphocytes (bone marrow, lymph nodes and spleen), cortical thymocytes, granulosa cells of the ovary, most Langerhans' islet cells, CNS ependymal cells, Sertoli's cells of the testis and, in a few cases, endothelial cells of single blood vessels. Results aid in the classification of Ewing's sarcoma and primitive peripheral neuroectoderm tumors.



Ewing's sarcoma (FFPE) stained with FLEX Anti-CD99, Code IR057/ IS057.

Monoclonal Mouse Anti-Human
CD105, Endoglin

Clone: SN6h
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme

CE	M3527	Culture supernatant	1 mL

Endoglin is a type I transmembrane protein which is highly expressed on human vascular endothelial cells. A large variety of tissues express endoglin.

Polyclonal Rabbit Anti-Human
CD117, c-kit

● Frozen ● Formalin ● HIER

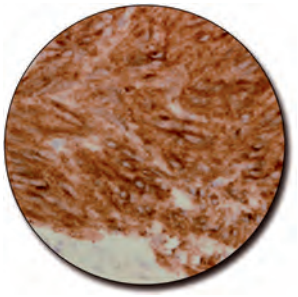
CE	A4502	Affinity isolated	0.2 mL

The antibody labels the transmembrane tyrosine kinase receptor CD117/c-kit, located in hematopoietic stem cells, melanocytes, mast cells, Cajal cells, germ cells, basal cells of skin, and mammary ductal epithelia. Antibodies to CD117 may be useful for the classification of several cancers expressing c-kit, including gastrointestinal stromal tumors (GISTs), mast cell diseases, acute myeloid leukemia (AML), small cell lung carcinoma (SCLC), and Ewing's sarcoma (1-4).

References:

1. Tsuura Y, Hiraki H, Watanabe K, Igarashi S, Shimamura K, Fukuda T, et al. Preferential localization of c-kit product in tissue mast cells, basal cells of skin, epithelial cells of breast, small cell lung carcinoma and seminoma/ dysgerminoma in human: immunohistochemical study on formalin-fixed, paraffin-embedded tissues. Virchows Arch 1994;424:135-41.
2. van Oosterom AT, Judson I, Verweij J, Stroobants S, di Paola ED, Dimitrijevic S, et al. Safety and efficacy of imatinib (STI571) in metastatic gastrointestinal stromal tumours: a phase I study. Lancet 2001;358:1421-3.
3. Hornick JL, Fletcher CDM. Immunohistochemical staining for KIT (CD117) in soft tissue sarcomas is very limited in distribution. Am J Clin Pathol 2002;117:188-93
4. Smithey BE, Pappo AS, Hill DA. C-kit expression in pediatric solid tumors: a comparative immunohistochemical study. Am J Surg Pathol 2002;26:486-92.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections



Gastrointestinal tumor (FFPE) stained with Anti-CD117, c-kit.

Monoclonal Mouse Anti-Human
CD138

Clone: MI15
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7228	Culture supernatant	1 mL
CE	GA642	RTU★, FLEX	60 tests, 12 mL◆
CE	IR642	RTU★, FLEX	60 tests, 12 mL▲
CE	IS642	RTU★, FLEX	30 tests, 6 mL△

CD138, syndecan-1, is a transmembrane proteoglycan with a main cellular expression in stratified and simple epithelia. Within the hemopoietic system, CD138 is mainly confined to late stages of B-cell differentiation. CD138 expression is reduced during malignant transformation of various epithelia, and CD138 is rapidly shed by myeloma cells entering into apoptosis. This antibody is a useful aid for classification of multiple myeloma. Anti-CD138 may also be useful for the subclassification of diffuse large B-cell lymphomas.

High grade myeloma (FFPE) stained with FLEX Anti-CD138, Code GA642, on Dako Omnis.

CD141
See: Thrombomodulin

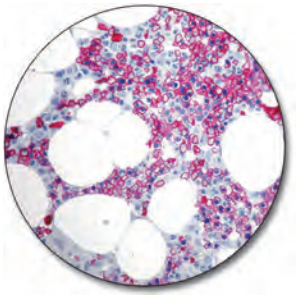
Monoclonal Mouse Anti-Human
CD235a, Glycophorin A

Clone: JC159
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0819	Culture supernatant	1 mL

Reacts with normal erythroid cells at essentially all stages of differentiation from erythroblasts to mature erythrocytes. The antibody is a useful aid for classification of erythroleukemia.



Bone marrow normal erythropoiesis (FFPE) stained with Anti-CD235a, Glycophorin A, Code M0819.

CD236R
See: Glycophorin C

Monoclonal Mouse Anti-Human
CD246, ALK Protein

Clone: ALK1
Isotype: IgG3, kappa

● Frozen ● Formalin ● HIER

CE	M7195	Culture supernatant	0.2 mL/1 mL
CE	GA641	RTU★, FLEX	60 tests, 12 mL◆
CE	IR641	RTU★, FLEX	60 tests, 12 mL▲
CE	IS641	RTU★, FLEX	30 tests, 6 mL△

Recognizes a formalin-resistant epitope in both the 80 kDa NPM-ALK chimeric and the 200 kDa normal human ALK proteins (1). Normal ALK protein expression is restricted to the central nervous system. The hybrid gene, *NPM-ALK*, created by the t(2;5)(p23;q35) chromosomal translocation encodes part of the nucleolar phosphoprotein, nucleophosmin (NPM), joined to the cytoplasmic portion of the anaplastic lymphoma kinase (ALK) receptor tyrosine kinase (2). This antibody is a useful aid for classification of anaplastic large cell lymphoma (ALCL).

References:

1. Pulford K, Lamant L, Morris SW, Butler LH, Wood KM, Stroud D, et al. Detection of anaplastic lymphoma kinase (ALK) and nucleolar protein nucleophosmin (NPM)-ALK proteins in normal and neoplastic cells with the monoclonal antibody ALK1. Blood 1997;89:1394-404.
2. Morris SW, Kirstein MN, Valentine MB, Dittmer KG, Shapiro DN, Saltman DL, et al. Fusion of a kinase gene, ALK, to a nucleolar protein gene, NPM, in non-Hodgkin's lymphoma (published erratum appears in Science 1995;267:316-7). Science 1994;263:1281-4.

Anaplastic large cell lymphoma (FFPE) stained with FLEX Anti-CD246, ALK Protein, Code GA641, on Dako Omnis.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

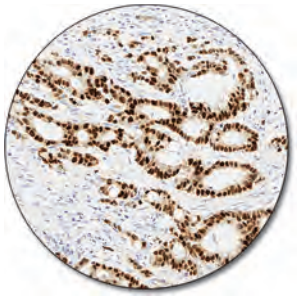
Monoclonal Mouse Anti-Human
CDX2

Clone: DAK-CDX2
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3636 Culture supernatant	0.2 mL/1 mL
CE	GA080 RTU★, FLEX	60 tests, 12 mL◆
CE	IR080 RTU★, FLEX	60 tests, 12 mL▲
CE	IS080 RTU★, FLEX	30 tests, 6 mL△

Cdx2, a human gene homologous to the Drosophila caudal-type homeobox gene, encodes a transcription factor, which is involved in proliferation and differentiation of intestinal epithelial cells. The CDX2 protein is widely expressed in intestinal epithelium from the duodenum to the rectum. Scattered expression has been reported in pancreatic ductules, while no expression has been observed in other normal tissues tested. Results aid in the classification of both primary and metastatic tumors of the gastrointestinal tract, including carcinoids.



Colon adenocarcinoma (FFPE) stained with FLEX Anti-CDX2, Code GA080, on Dako Omnis.

Polyclonal Rabbit Anti-Human
c-erbB-2 Oncoprotein

● Formalin ● HIER

CE	A0485 Affinity isolated	0.2 mL

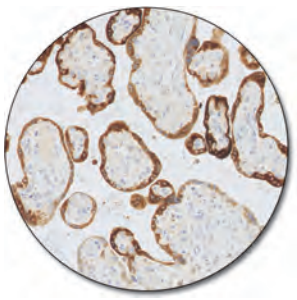
A synthetic peptide, coupled to keyhole limpet hemocyanin, has been used for immunization. The peptide represents part of the predicted 185 kDa oncoprotein encoded by *ERBB2*, also termed *HER2* or *NEU*. The antibody recognizes an epitope on the cytoplasmic part of the cell membrane-bound c-erbB-2 oncoprotein. Overexpression of c-erbB-2 oncoprotein has been found in 25-30% of human breast carcinomas.

Polyclonal Rabbit Anti-Human
Chorionic Gonadotropin (hCG)

● Formalin ● HIER

CE	A0231 Ig fraction	2 mL
CE	GA508 RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR508 RTU★, FLEX	60 tests, 12 mL▲
CE	IS508 RTU★, FLEX	30 tests, 6 mL△

The isolated β-chain of hCG is used for immunization. The antibody cross-reacts with human luteinizing hormone (LH). For immunohistochemical use, the cross-reaction with LH will not cause misinterpretation, and the antibody is well-suited for identification of hCG in trophoblastic elements and is a useful aid for classification of germ cell tumors.



Placenta (FFPE) stained with FLEX Anti-Human Chorionic Gonadotropin, Code GA508, on Dako Omnis.

Monoclonal Mouse Anti-Human
Chromogranin A

Clone: DAK-A3
Isotype: IgG2b, kappa

● Frozen ● Formalin ● HIER

CE	M0869 Culture supernatant	0.2 mL/1 mL

Labels cells of neuroendocrine origin. Anti-Chromogranin A, clone DAK-A3, reacts with an epitope on the C-terminal half of the chromogranin A molecule. Results aid in the classification of neuroendocrine-derived tumors.

Dako FLEX RTU Antibodies for Endocrine System Testing

See our panel of FLEX antibodies at page 65

c-kit

See: CD117, c-kit

Monoclonal Mouse Anti-Human
Collagen IV

Clone: CIV 22
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0785 Culture supernatant	1 mL

Is directed against collagen IV, a major constituent of the basement membrane. The antibody is important in demonstrating the loss of basement membrane. The antibody is a useful aid for classification of invasive carcinomas.

Monoclonal Mouse Anti-Human
COX-2

Clone: CX-294
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

CE	M3617 Culture supernatant	1 mL

The cyclooxygenase (COX) enzymes are critical in the biosynthesis of prostaglandins from arachidonic acid. COX-2 is a 70 kDa enzyme that is responsible for prostaglandin synthesis at the site of inflammation and is readily induced in response to cell activation by cytokines, growth factors and tumor promoters. Results aid in the classification of a variety of malignancies, including colorectal adenocarcinoma, a subset of breast adenocarcinomas and adjacent ductal carcinoma in situ, lung adenocarcinoma, esophageal squamous cell carcinoma and squamous adenocarcinoma, malignant melanoma, and subsets of ovarian carcinoma and prostate carcinoma.

Monoclonal Rabbit Anti-Human
Cyclin D1

Clone: EP12

● Formalin ● HIER

CE	M3642 Affinity isolated	1 mL
CE	GA083 RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR083 RTU★, FLEX	60 tests, 12 mL▲
CE	IS083 RTU★, FLEX	30 tests, 6 mL△

This monoclonal rabbit antibody reacts with cyclin D1, a 36 kDa protein encoded by the CCND1 (bcl-1) gene located on chromosome 11q13. Cyclin D1 is part of the cell cycle regulation and oncogenic transformation in mammalian cells. The cyclin-dependent kinases, CDK4 and CDK6, are associated with and activated by cyclin D1 thereby promoting G1 phase progression by retinoblastoma protein phosphorylating along with related proteins. Antibodies to cyclin D1 are a useful aid for classification of mantle cell lymphomas in the context of lymphoid tumors (1-2).

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

References:
1. Donnellan R, Chetty R. Cyclin D1 and human neoplasia. J Clin Pathol: Mol Pathol 1998;51:1-7.
2. Falini B, Martelli MP, Tiacci E, Ascani S, Thiede C, Pileri SA. Immunohistochemical surrogates for genetic alterations of CCND1, PML, ALK, and NPM1 genes in lymphomas and acute myeloid leukemia. Best Practice & Research Clin Haematol 2010:23:417-31.

Mantle cell lymphoma (FFPE) stained with FLEX Anti-Cyclin D1, Code GA083, on Dako Omnis.

Monoclonal Mouse Anti-Human
Cytokeratin

Clone: AE1/AE3
Isotype: IgG1, kappa

● Frozen ● Formalin ● (Enzyme)/HIER

CE	M3515 Ascites	0.2 mL/1 mL
CE	GA053 RTU★, FLEX	60 tests, 12 mL◆
CE	IR053 RTU★, FLEX	60 tests, 12 mL▲
CE	IS053 RTU★, FLEX	30 tests, 6 mL△

Reacts with the 65-67, 64, 59, 58, 56.5, 56, 54, 52, 50, 48 and 40 kDa cytokeratins. The antibody labels keratinized and corneal epidermis, stratified squamous epithelia of internal organs, stratified epithelia, hyperproliferative keratinocytes, and simple epithelia. The antibody is useful aid for classification of tumors of epithelial origin as well as undifferentiated carcinomas.

Adenocarcinoma (FFPE) stained with FLEX Anti-Cytokeratin, Code GA053, on Dako Omnis.

Dako FLEX RTU Antibodies for Undifferentiated Tum98 or Testing

See our panel of FLEX antibodies at page 73

Monoclonal Mouse Anti-Human
Cytokeratin

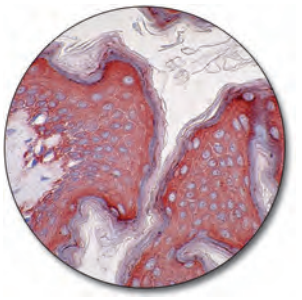
Clone: MNF116
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme

CE	M0821 Culture supernatant	1 mL

Reacts with cytokeratins 5, 6, 8, 17 and may also react with 19. The antibody shows an especially broad pattern of reactivity with human epithelial tissue from simple glandular to stratified squamous epithelium and can be used in the classification of neoplastic cells of epithelial origin.

References:
1. Prieto VG, Lugo J, McNutt NS. Intermediate- and low-molecular-weight keratin detection with the monoclonal antibody MNF116. An immunohistochemical study on 232 paraffin-embedded cutaneous lesions. J Cutan Pathol 1996;23:234-41.
2. Richter T, Nährig J, Komminoth P, Kowolik J, Werner M. Protocol for ultrarapid immunostaining of frozen sections. J Clin Pathol 1999;52:461-3.



Skin (FFPE) stained with Anti-Cytokeratin, Code M0821.

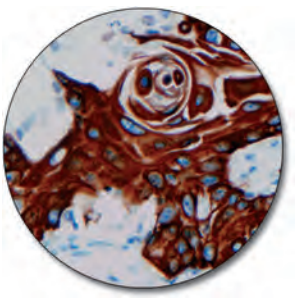
Monoclonal Mouse Anti-Human
Cytokeratin 5/6

Clone: D5/16 B4
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7237 Ascites Ig fraction	0.2 mL/1 mL
CE	GA780 RTU★, FLEX	60 tests, 12 mL◆
CE	IR780 RTU★, FLEX	60 tests, 12 mL▲
CE	IS780 RTU★, FLEX	30 tests, 6 mL△

Reacts strongly with cytokeratins 5 and 6 and weakly with cytokeratin 4. The antibody does not cross-react with cytokeratins 1, 7, 8, 10, 13, 14, 18 and 19. It labels mesothelioma, and epithelial basal cells in prostate and tonsil. No reactivity with other mesodermally derived tissues, such as muscle and connective tissues, has been observed. The antibody is a useful aid for classification of epithelioid mesotheliomas.



Squamous cell carcinoma of the lung (FFPE) stained with FLEX Anti-Cytokeratin 5/6, Code IR780/ IS780.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
Cytokeratin 7

Clone: OV-TL 12/30
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M7018	Culture supernatant	0.2 mL/1 mL
CE	GA619	RTU★, FLEX	60 tests, 12 mL◆
CE	IR619	RTU★, FLEX	60 tests, 12 mL▲
CE	IS619	RTU★, FLEX	30 tests, 6 mL△

Reacts with the 54 kDa protein corresponding to cytokeratin 7. The antibody labels several types of normal and neoplastic epithelia, including many ductal and glandular epithelia. The antibody is a useful aid for classification of adenocarcinomas of the lung, breast and endometrium, thyroid gland and ovary, as well as chromophobe renal cell carcinomas. Results may also aid in the classification of prostate carcinomas where CK7 is rarely expressed.

Reference:
1. Chu P, Wu W, Weiss LM. Cytokeratin 7 and Cytokeratin 20 expression in epithelial neoplasms: a survey of 435 cases. Mod Pathol 2000;13:962-72.

Ductal carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 7, Code GA619, on Dako Omnis.

Monoclonal Rabbit Anti-Human
Cytokeratin 8/18

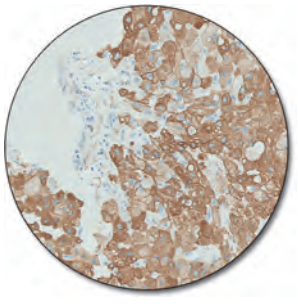
Clone: EP17/EP30

● Formalin ● HIER

CE	M3652	Culture supernatant	1 mL
CE	IR094	RTU★	60 tests, 12 mL▲

Cytokeratins 8 and 18 (CK8/18) make up one of the low molecular weight cytokeratins (LMW-CK). CK8/18 is expressed in simple, non-stratified epithelia, basal and superficial cells of transitional epithelium, the luminal/secretory cells of complex epithelia, mesothelium, and may be present in some types of mesenchymal cells. Multiple cytokeratins family members may be expressed in a given cell and are characteristic of the cell type and differentiation state. Nearly all carcinomas of epithelial origin and mesotheliomas express CK8/18, and CK8/18 expression patterns aid in the classification of tumors of unknown origin and poorly differentiated carcinomas. Antibodies to CK8/18 may be useful for classification of tumors of epithelial origin (1).
This product is a cocktail of two monoclonal rabbit antibodies.

Reference:
1. Moll R, Divo M, Langbein L. The human keratins: biology and pathology. Histochem Cell Biol 2008;129:705-33.



Hepatocellular carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 8/18, Code IR094.

Monoclonal Mouse Anti-Human
Cytokeratin 10

Clone: DE-K10
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7002	Culture supernatant	1 mL

Reacts with the 56.5 kDa protein corresponding to cytokeratin 10. The antibody labels cytokeratin 10 present in keratinizing and non-keratinizing stratified epithelia and in the more differentiated areas of some squamous cell carcinomas.

Monoclonal Mouse Anti-Human
Cytokeratin 10/13

Clone: DE-K13
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

RUO	M7003	Culture supernatant	1 mL

Reacts on formalin-fixed, paraffin-embedded tissue sections with the 53 kDa protein corresponding to cytokeratin 13. This cytokeratin is present in several non-cornified, stratified squamous epithelia, for example tongue mucosa, and tracheal and anal canal epithelium. On frozen sections the antibody, in addition, reacts with the 56.5 kDa protein corresponding to cytokeratin 10.

Monoclonal Mouse Anti-
Cytokeratin 17

Clone: E3
Isotype: IgG2b, kappa

● Frozen ● Formalin ● HIER

CE	M7046	Culture supernatant	1 mL
CE	IR620	RTU★, FLEX	60 tests, 12 mL▲
CE	IS620	RTU★, FLEX	30 tests, 6 mL△

Reacts with the 46 kDa human protein corresponding to cytokeratin 17. The antibody labels the basal layer of complex epithelia, i.e. the basal layer of pseudostratified epithelium in the larynx, trachea and bronchi. Results aid in the classification of squamous cell carcinomas of the lung, cervix and oral cavity.

Monoclonal Mouse Anti-Human
Cytokeratin 18

Clone: DC 10
Isotype: IgG1, kappa

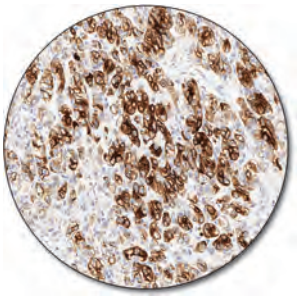
● Frozen ● Formalin ● Enzyme/HIER

CE	M7010	Culture supernatant	0.2 mL
CE	GA618	RTU★, FLEX	60 tests, 12 mL◆
CE	IR618	RTU★, FLEX	60 tests, 12 mL▲
CE	IS618	RTU★, FLEX	30 tests, 6 mL△

Reacts with the 45 kDa protein corresponding to cytokeratin 18. The antibody labels a large number of simple epithelia, including many ductal and glandular epithelia. The antibody is a useful aid for classification of tumors of epithelial origin. In vascular tumors, the antibody may be a useful aid in the classification of epithelioid hemangioendotheliomas.

Reference:
1. Lauerova L, Kovarik J, Bartek J, Rejthar A, Vojtesek B. Novel monoclonal antibodies defining epitope of human cytokeratin 18 molecule. Hybridoma 1988;7:495-504.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections



Renal clear cell carcinoma stained with FLEX Anti-Cytokeratin 18, Code GA618, on Dako Omnis.

Monoclonal Mouse Anti-Human
Cytokeratin 19

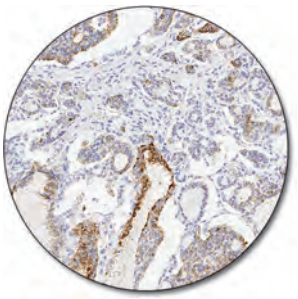
Clone: RCK108
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M0888	Culture supernatant	1 mL
CE	GA615	RTU★, FLEX	60 tests, 12 mL◆
CE	IR615	RTU★, FLEX	60 tests, 12 mL▲
CE	IS615	RTU★, FLEX	30 tests, 6 mL△

Reacts with the 40 kDa protein corresponding to cytokeratin 19. The antibody labels many types of simple and non-keratinizing epithelia, including ductal and glandular epithelia. The antibody is a useful aid for classification of tumors of epithelial origin.

Reference:
1. Dalal P, Shousha S. Keratin 19 in paraffin sections of medullary carcinoma and other benign and malignant breast lesions. Mod Pathol 1995;8:413-6.



Thyroid papillary carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 19, Code GA615, on Dako Omnis.

Monoclonal Mouse Anti-Human
Cytokeratin 20

Clone: K_s20.8
Isotype: IgG2a, kappa

● Formalin ● Enzyme/HIER

CE	M7019	Purified	0.2 mL/1 mL
CE	GA777	RTU★, FLEX	60 tests, 12 mL◆
CE	IR777	RTU★, FLEX	60 tests, 12 mL▲
CE	IS777	RTU★, FLEX	30 tests, 6 mL△

Reacts with the 46 kDa protein corresponding to cytokeratin 20. The antibody is a useful aid for classification of adenocarcinomas of the colon, mucinous ovarian tumors, transitional-cell and Merkel-cell carcinomas, adenocarcinomas of the stomach, bile system and pancreas. Results also aid in the classification of most squamous cell carcinomas and most adenocarcinomas from other sites (breast, endometrium, lung, prostate), non-mucinous tumors of the ovary, and small-cell lung carcinomas as these may be negative.

References:
1. Moll R, Löwe A, Laufer J, Franke WW. Cytokeratin 20 in human carcinomas. Am J Pathol 1992;140:427-47.
2. Harnden P, Mahmood N, Southgate J. Expression of cytokeratin 20 redefines urothelial papillomas of the bladder. Lancet 1999;353:974-7.
3. Chu P, Wu W, Weiss LM. Cytokeratin 7 and cytokeratin 20 expression in epithelial neoplasms: a survey of 435 cases. Mod Pathol 2000;13:962-72.

Merkel cell carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 20, Code GA777, on Dako Omnis.

Monoclonal Mouse Anti-Human
Cytokeratin, High Molecular Weight

Clone: 34βE12
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme + HIER

CE	M0630	Culture supernatant	0.2 mL/1 mL
CE	GA051	RTU★, FLEX	60 tests, 12 mL◆
CE	IR051	RTU★, FLEX	60 tests, 12 mL▲
CE	IS051	RTU★, FLEX	30 tests, 6 mL△

Reacts with the 68 kDa, 58 kDa, 56.5 kDa and 50 kDa proteins corresponding to cytokeratins 1, 5, 10 and 14. The antibody labels squamous, ductal and complex epithelia. Results aid in the classification of prostatic adenocarcinoma and in the classification of neoplastic tissue as carcinoma of epithelial origin.

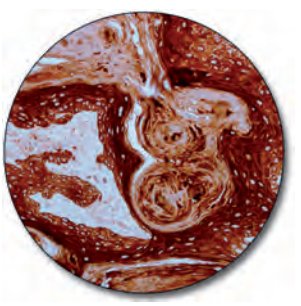
Prostate (FFPE) stained with FLEX Anti-Cytokeratin HMW, Code GA051, on Dako Omnis.

Polyclonal Rabbit Anti-
Cytokeratin, Wide Spectrum Screening

● Formalin ● Enzyme

CE	Z0622	Ig fraction	1 mL

Cow keratin has been used as immunogen. This antibody is particularly well-suited for the staining of a broad spectrum of human keratins and is a useful aid for the classification of neoplasm of epithelial origin.



Squamous cell carcinoma (FFPE) stained with Anti-Cytokeratin, Wide Spectrum Screening.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-
Cytomegalovirus

Clone: CCH2 + DDG9
Isotype: IgG2a, kappa + IgG1, kappa

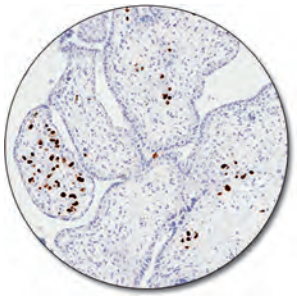
● Frozen ● Formalin ● Enzyme

CE	M0854	Culture supernatant	1 mL
CE	GA752	RTU★, FLEX	60 tests, 12 mL◆
CE	IR752	RTU★, FLEX	60 tests, 12 mL▲
CE	IS752	RTU★, FLEX	30 tests, 6 mL△

Reacts with CMV immediate early antigen and early antigen. The antibody shows no cross-reaction with other herpesviruses or with adenovirus. In CMV-infected cells, the antibody gives a nuclear staining pattern early during the infection; at a later stage, a diffuse nuclear and apparent cytoplasmic staining is observed. The antibody is particularly well-suited for the detection of CMV in infected human embryonic fibroblasts.

References:

1. Niedobitek G, Finn T, Herbst H, et al. Detection of cytomegalovirus by in situ hybridisation and immunohistochemistry using the new monoclonal antibody CCH2: a comparison of methods. J Clin Pathol 1988;41:1005-9.
2. Wirgart BZ, Landqvist M, Hökeberg I, et al. Early detection of cytomegalovirus in cell culture by a new monoclonal antibody, CCH2. J Virol Methods 1990;27:211-20.



Lung tissue (FFPE) stained with FLEX Anti-Cytomegalovirus, Code GA752, on Dako Omnis.

D2-40

See: Podoplanin

Dendritic Reticulum Cell

See: CD35

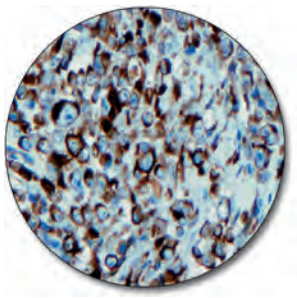
Monoclonal Mouse Anti-Human
Desmin

Clone: D33
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0760	Culture supernatant	0.2 mL/1 mL
CE	IR606	RTU★, FLEX	60 tests, 12 mL▲
CE	IS606	RTU★, FLEX	30 tests, 6 mL△

Labels smooth and striated muscle cells. The antibody works on paraffin-embedded material without pretreament with proteolytic enzymes. Anti-Desmin, clone D33, is a useful aid for classification of tumors of uncertain origin.



Rhabdomyosarcoma (FFPE) stained with FLEX Anti-Desmin, Code IR606/IS606.

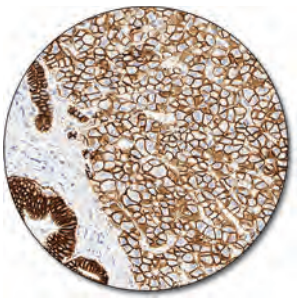
Monoclonal Mouse Anti-Human
E-Cadherin

Clone: NCH-38
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3612	Culture supernatant	0.2 mL/1 mL
CE	GA059	RTU★, FLEX	60 tests, 12 mL◆
CE	IR059	RTU★, FLEX	60 tests, 12 mL▲
CE	IS059	RTU★, FLEX	30 tests, 6 mL△

E (epithelial)-cadherin is a 120 kDa transmembrane cell adhesion molecule. It has a significant function in intercellular adhesion of epithelial cells, the establishment of epithelial polarization, glandular differentiation and stratification. Down-regulation of E-cadherin expression has been observed in a number of carcinomas and is usually associated with advanced stage and progression. The antibody is a useful aid for classification of ductal breast carcinomas.



Poorly differentiated ductal carcinoma (FFPE) stained with FLEX Anti-E-Cadherin, Code GA059, on Dako Omnis.

Dako FLEX RTU Antibodies for Skeletal Muscle Testing

See our panel of FLEX antibodies at page 71

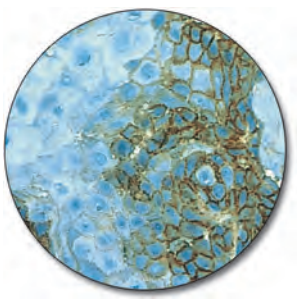
Monoclonal Mouse Anti-Human
EGFR

Clone: E30
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme

CE	M7239	Purified	1 mL

Reacts with an external domain present in the transmembrane 170 kDa wild-type EGFR and EGFRvIII variant. The antibody labels the majority of simple and squamous epithelia. EGFR overexpression has been demonstrated in a variety of neoplasms.



Squamous carcinoma (tongue) (FFPE) stained with Anti-EGFR, Code M7239.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

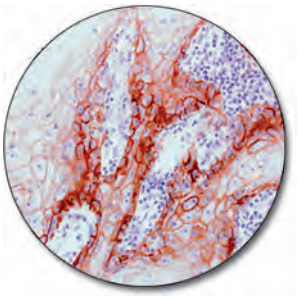
Monoclonal Mouse Anti-Human
EGFR

Clone: H11
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme

CE M3563 Culture supernatant 1 mL

Labels the majority of simple and squamous epithelia. Results aid in the classification of neoplasms exhibiting EGFR expression, for example in a proportion of cases of breast, bladder, pancreatic, stomach and thyroid tumors.



Squamous cell carcinoma (FFPE) stained with Anti-EGFR.

Monoclonal Mouse Anti-Human
EGFR, Wild-Type

Clone: DAK-H1-WT
Isotype: IgG1

● Formalin ● HIER

RUO M7298 Culture supernatant 0.2 mL

Reacts with the N-terminal part of the extracellular domain of human epidermal growth factor receptor (EGFR). EGFR is a 170 kDa transmembrane receptor that is expressed by a variety of normal cells including fibroblasts and a wide range of epithelia. This antibody does not label the 2-7 truncated EGFR variant (EGFR-vIII).

Reference:
1. Jorissen RN, Walker F, Pouliot N, Garrett TP, Ward CW, Burgess AW. Epidermal growth factor receptor: mechanisms of activation and signaling [review]. Exp Cell Res 2003;284:31-53.

Monoclonal Mouse Anti-Human
EGFR-pY1197
Phosphorylation Site Specific

Clone: DAK-H1-1197
Isotype: IgG2a

● Formalin ● HIER

RUO M7299 Culture supernatant 0.2 mL

Reacts with epidermal growth factor receptor (EGFR) phosphorylated at tyrosine residue 1197 (pY1197). Binding of epidermal growth factor to the extracellular domain of EGFR results in receptor dimerization and autophosphorylation on tyrosine residues, pY1197 being one of the major autophosphorylation sites (1, 2).

References:
1. Chattopadhyay A, Vecchi M, Ji Q, Mernaugh R, Carpenter G. The role of individual SH2 domains in mediating association of phospholipase C-gamma1 with the activated EGF receptor. J Biol Chem 1999;274:26091-7.
2. Lombardo CR, Consler TG, Kassel DB. In vitro phosphorylation of the epidermal growth factor receptor autophosphorylation domain by c-src: identification of phosphorylation sites and c-src SH2 domain binding sites. Biochem 1995;34:16456-66.

Endoglin

See: CD105, Endoglin

Endothelial Cell

See: CD31, Endothelial Cell

Monoclonal Mouse Anti-
Enterovirus

Clone: 5-D8/1
Isotype: IgG2a, kappa

● Frozen ● Formalin

CE M7064 Culture supernatant 1 mL

Reacts with an epitope on the VP1 peptide which is highly conserved within the enterovirus group. The antibody, originally generated using coxsackie virus B5 as immunogen, reacts with most of the enterovirus strains of the coxsackie, echo and poliovirus groups. No reaction is seen with human rotavirus, yellow fever virus, measles virus, rhinovirus A1 and adenovirus 18. M7064 is especially suited for testing of cell cultures inoculated with samples from patients suspected of having an enterovirus infection. When using M7064 in the indirect immunofluorescence technique, we recommend polyclonal rabbit anti-mouse immunoglobulins/FITC as secondary antibody.

References:
1. Yousef GE, Brown IN, Mowbray JF. Derivation and biochemical characterization of an enterovirus group-specific monoclonal antibody. Intervirology 1987;28:163-70.
2. Bourlet T, Gharbi J, Omar S, Aouni M, Pozzetto B. Comparison of a rapid culture method combining an immunoperoxidase test and a group specific anti-VP1 monoclonal antibody with conventional virus isolation techniques for routine detection of enteroviruses in stools. J Med Virol 1998;54:204-9.

Epidermal Growth Factor Receptor

See: EGFR

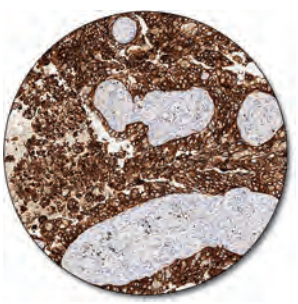
Monoclonal Mouse Anti-Human
Epithelial Antigen

Clone: Ber-EP4
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0804	Culture supernatant	0.2 mL/1 mL
CE	GA637	RTU★, FLEX	60 tests, 12 mL◆
CE	IR637	RTU★, FLEX	60 tests, 12 mL▲
CE	IS637	RTU★, FLEX	30 tests, 6 mL△

Epithelial antigen is a transmembrane glycoprotein functioning as a cellular adhesion molecule. This epithelium-specific antigen is broadly distributed in epithelial cells, and displays a highly conserved expression in carcinomas. The antibody is a useful aid for classification of adenocarcinoma. Anti-Epithelial Antigen may also aid in classification of micrometastases in lymph nodes of esophageal carcinoma as well as in classification of basal and squamous cell carcinomas of the skin.



Adenocarcinoma (FFPE) stained with FLEX Anti-Epithelial Antigen, Code GA637, on Dako Omnis.

Dako FLEX RTU Antibodies for Mesothelial Surface Testing

See our panel of FLEX antibodies at page 69

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

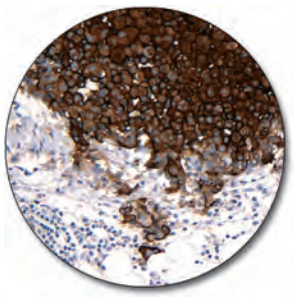
Monoclonal Mouse Anti-Human
Epithelial Membrane Antigen (EMA)

Clone: E29
Isotype: IgG2a, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M0613	Culture supernatant	0.2 mL/1 mL
CE	IR629	RTU★, FLEX	60 tests, 12 mL▲
CE	IS629	RTU★, FLEX	30 tests, 6 mL△

Epithelial membrane antigen (EMA) is present on the membrane of secretory epithelia. In the classification of hematolymphoid neoplasms, the antibody labels Reed-Sternberg cells in nodular lymphocyte predominant Hodgkin's lymphoma and neoplastic cells in a subset of anaplastic large cell lymphomas.



Breast ductal carcinoma (FFPE) stained with FLEX Anti-EMA, Code IR629/IS629.

Monoclonal Mouse Anti-Human
Epithelial-Related Antigen

Clone: MOC-31
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3525	Culture supernatant	1 mL

Reacts with a transmembrane glycoprotein present on most epithelia. Mesothelial cell-derived tumors have been found to be negative. At the Second International Workshop on Small Cell Lung Cancer (SCLC) Antigens, the antibody was assigned to SCLC-Cluster 2, a group of antibodies which react with an epithelial antigen (1).

References:

1. Souhami RL, Beverley PC, Bobrow LG, Ledermann JA. Antigens of lung cancer: results of the Second International Workshop on Lung Cancer Antigens. J Natl Cancer Inst 1991;83:609-12.
2. Ruitenbeek T, Gouw AS, Poppema S. Immunocytology of body cavity fluids. MOC-31, a monoclonal antibody discriminating between mesothelial and epithelial cells. Arch Pathol Lab Med 1994;118:265-9.

Monoclonal Mouse Anti-
Epstein-Barr Virus, LMP

Clone: CS.1-4
Isotype: IgG1, kappa

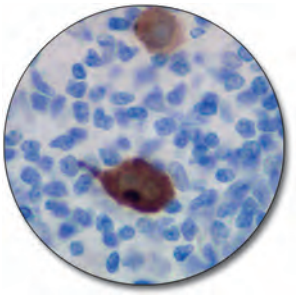
● Frozen ● Formalin ● Enzyme/HIER

CE	M0897	Culture supernatant	1 mL
CE	IR753	RTU★, FLEX	60 tests, 12 mL▲
CE	IS753	RTU★, FLEX	30 tests 6 mL△

Labels the Epstein-Barr virus-encoded latent gene product, latent membrane protein (LMP). The antibody can be used for the demonstration of latent EBV infection in cells and tissues. It has been found that EBV is associated with a high proportion of cases of Hodgkin's disease (1). LMP expression has also been found in nasopharyngeal carcinoma and non-lymphoblastic T-cell lymphoma (2, 3).

References:

1. Pallesen G, Hamilton-Dutoit SJ, Rowe M, Young LS. Expression of Epstein-Barr virus latent gene products in tumour cells of Hodgkin's disease. Lancet 1991;337:320-2.
2. Vera-Sempere FJ, Burgos JS, Botella MS, Cordoba J, Gobernado M. Immunohistochemical expression of Epstein-Barr virus-encoded latent membrane protein (LMP-1) in paraffin sections of EBV-associated nasopharyngeal carcinoma in Spanish patients. Oral Oncol, Eur J Cancer 1996;32B:163-8.



Hodgkin lymphoma (FFPE) stained with FLEX Anti-Epstein-Barr Virus, LMP, Code IR753/IS753.

Monoclonal Mouse Anti-Human
ERCC1

Clone: 4F9
Isotype: IgG1, kappa

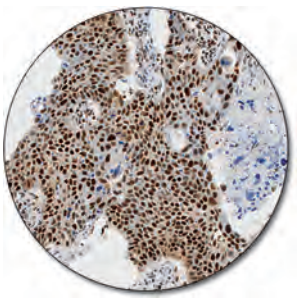
● Formalin ● HIER

CE	M3648	Culture supernatant	0.2 mL/1 mL
CE	IR091	RTU★, FLEX	60 tests, 12 mL▲

Excision repair cross-complementing rodent repair deficiency-1 (ERCC1) is a ~33 kDa nuclear protein involved in the nucleotide excision repair pathway (NER). The NER pathway is utilized to repair DNA mutations that occur as a result of DNA damage from external compounds, environmental carcinogens and UV-light.
Antibodies to ERCC1 is a useful aid for classification of a variety of tumor types including non-small cell lung carcinoma, gastroesophageal carcinoma, urothelial carcinoma, bladder carcinoma, and head and neck squamous cell carcinoma.

References:

1. Ma D, Baruch D, Shu Y, Yuan K, Sun Z, Ma K, et al. Using protein microarray technology to screen anti-ERCC1 monoclonal antibodies for specificity and applications in pathology. BMC Biotechnology 2012;12:88.
2. Olaussen KA, Dunant A, Fouret P, Brambilla E, André F, Haddad V, et al. DNA repair by ERCC1 in non-small-cell lung cancer and cisplatin-based adjuvant chemotherapy. N Engl J Med 2006;355:983-91.



Lung carcinoma (FFPE) stained with FLEX Anti-ERCC1, Code IR091.

Monoclonal Rabbit Anti-Human
ERG (Ets-Related Gene)

Clone: EP111

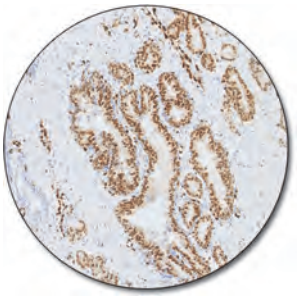
● Formalin ● HIER

CE	M7314	Affinity isolated	0.2 mL/1 mL
CE	GA659	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR659	RTU★, FLEX	60 tests, 12 mL▲

Ets-related gene (ERG) product is a ~41 kDa nuclear protein functioning as a DNA-binding transcriptional regulator that belongs to the erythroblast transformation-specific (ETS) family of transcription factors. In prostate cancer, ERG has most frequently been shown as a fusion protein with transmembrane protease, serine 2 (TMPRSS2), where a deletion between the *TMPRSS2* and *ERG* genes causes the *ERG* gene to come under the control of the androgen-responsive promoter elements of *TMPRSS2*.
This antibody is a useful aid for the classification of prostate adenocarcinoma (1, 2). Furthermore, ERG may also be a useful aid for classification of prostatic intraepithelial neoplasia (PIN) and vascular tumors.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

References:
1. Park K, Tomlins SA, Mudaliar KM, Chiu YL, Esgueva R, Mehra R, et al. Antibody-based detection of ERG rearrangement-positive prostate cancer. Neoplasia 2010;12:590-8.
2. van Leenders GJ, Boormans JL, Vissers CJ, Hoogland AM, Bressers AA, Furusato B, et al. Antibody EPR3864 is specific for ERG genomic fusions in prostate cancer: implications for pathological practice. Mod Pathol 2011;24:1128-38.



Prostate carcinoma (FFPE) stained with FLEX Anti-ERG, Code GA659, on Dako Omnis.

Monoclonal Mouse Anti-Human
Estrogen Receptor α

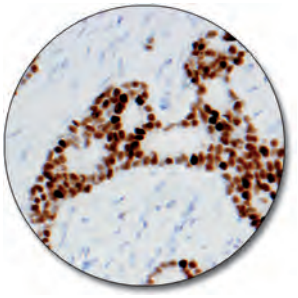
Clone: 1D5
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7047	Culture supernatant	0.2 mL/1 mL
CE	IR657	RTU★, FLEX	60 tests, 12 mL▲
CE	IS657	RTU★, FLEX	30 tests, 6 mL△

Reacts with estrogen receptor alpha. The antibody strongly labels the nuclei of cells known to contain a high level of estrogen receptor, e.g. epithelial and myometrial cells of the uterus, and normal, hyperplastic and neoplastic cells of the mammary gland. A number of publications has confirmed the usefulness of the Dako antibody.

References:
1. Al Saati T, Clamens S, Cohen-Knafo E, Faye JC, Prats H, Coindre JM, et al. Production of monoclonal antibodies to human estrogen-receptor protein (ER) using recombinant ER (RER). Int J Cancer 1993;55:651-4.
2. Sannino P, Shousha S. Demonstration of oestrogen receptors in paraffin wax sections of breast carcinoma using the monoclonal antibody 1D5 and microwave oven processing. J Clin Pathol 1994;47:90-2.
3. Jotti GS, Johnston SRD, Salter J, Detre S, Dowsett M. Comparison of immunohistochemical assay for oestrogen receptor in paraffin wax embedded breast carcinoma tissue with quantitative enzyme immunoassay. J Clin Pathol 1994;47:900-5.
4. Goulding H, Pinder S, Cannon P, Pearson D, Nicholson R, Snead D, et al. An immunohistochemical antibody for the assessment of estrogen receptor status on routine formalin-fixed tissue samples. Hum Pathol 1995;26:291-4.
5. Hendricks JB, Stephen CA, Wilkinson EJ, Szekeres G. Estrogen receptor specific (ER1D5) epitope stability in paraffin sections. J Histotechnol 1996;19:23-5.
6. Taylor CR. Paraffin section immunocytochemistry for estrogen receptor. The time has come (editorial). Cancer 1996; 77:2419-22.



Breast ductal carcinoma (FFPE) stained with Anti-Estrogen Receptor α, Code IR657/IS657.

Dako FLEX RTU Antibodies for Breast Tissue Testing

See our panel of FLEX antibodies at page 65

Monoclonal Rabbit Anti-Human
Estrogen Receptor α

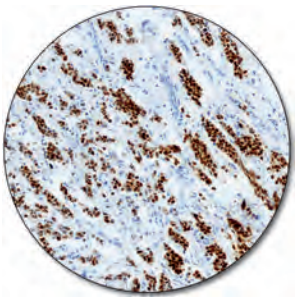
Clone: EP1

● Formalin ● HIER

CE	M3643	Affinity isolated	0.2 mL/1 mL
CE	IR084	RTU★, FLEX	60 tests, 12 mL▲
CE	IS084	RTU★, FLEX	30 tests, 6 mL△

This monoclonal rabbit antibody reacts with human estrogen receptor α (ER α). Estrogens have been found to be preferentially concentrated in the estrogen target organs of animals and in human breast cancers, and it is well documented that the mitogenic effects of estrogen are mediated by ER. Historical studies have shown that ER status is correlated with untreated outcome and with response to anti-hormonal therapy, e.g. tamoxifen (1). The antibody can used in the semi-quantitative detection of human estrogen receptor in tissue sections of human breast cancer by immunohistochemistry for assessment of estrogen receptor status.in human breast carcinomas.

Reference:
1. Elledge RM, Fuqua SAW. Chapter 31: Estrogen and Progesterone Receptors. In: Diseases of the Breast. Harris JR, et al. eds. Philadelphia: Lippincott Williams & Wilkins 2000:471-85.



Breast carcinoma (FFPE) stained with FLEX Anti-Estrogen Receptor α, Clone EP1.

Monoclonal Mouse Anti-Human
Estrogen Receptor β1

Clone: PPG5/10
Isotype: IgG2a

● Formalin ● HIER

CE	M7292	Culture supernatant•	1 mL

The antibody labels human wild type estrogen receptorβ (ERβ1) protein and is a useful tool for the characterization of the ERβ1 status in human breast (1, 2) and prostate carcinomas (3). Results from a number of studies suggest a loss of ERβ expression or a decreased expression in many cancers, including breast, ovary and colon, compared with the expression in the corresponding normal tissues, and alteration in the ERα/ERβ ratio is proposed to govern tumor development (4). In prostatic neoplasia, the expression of ERβ appears complex, thus ERβ, as detected with anti-ERERβ1, clone PPG5/10, has been reported to be partially lost in high-grade prostatic intraepithelial neoplasia (HGPIN) and in androgen-insensitive stages of prostatic adenocarcinoma, while it is retained in untreated primary and metastatic prostatic adenocarcinoma (3).

References:
1. Skliris GP, Parkes AT, Limer JL, Burdall SE, Carder PJ, Speirs V. Evaluation of seven oestrogen receptor β antibodies for immunohistochemistry, western blotting, and flow cytometry in human breast tissue. J Pathol 2002;197:155-62.
2. Saunders PTK, Millar MR, Williams K, Macpherson S, Bayne C, O'Sullivan C, et al. Expression of oestrogen receptor beta (ERβ1) protein in human breast cancer biopsies. Br J Cancer 2002;86:250-6.
3. Fixemer T, Remberger K, Bonkhoff H. Differential expression of the estrogen receptor beta (ERβ) in human prostate tissue, premalignant changes, and in primary, metastatic, and recurrent prostatic adenocarcinoma. Prostate 2003;54:79-87.
4. Bardin A, Boulle N, Lazennec G, Vignon F, Pujol P. Loss of EBβ expression as a common step in estrogen-dependent tumor progression (review). Endocr Relat Cancer 2004;11:537-51.

• Product to be discontinued on 31 December 2016
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Ewing's Sarcoma Marker, MIC2 Gene Product

See: CD99, MIC2 Gene Product, Ewing's Sarcoma Marker

Factor VIII-Related Antigen

See: Von Willebrand Factor

Monoclonal Mouse Anti-Human
Fascin

Clone: 55K-2
Isotype: IgG1

● Frozen ● Formalin ● HIER

RUO M3567 Culture supernatant 1 mL

Fascin, encoded by the human homologue for the *sn* gene, *HSN*, has been localized to microspikes and stress-fibers of cultured cells, where it is thought to be involved in the formation of microfilament bundles. Fascin is expressed in the cytoplasm of Reed-Sternberg cells, as well as in certain dendritic cells.

Polyclonal Rabbit Anti-Human
Fibrinogen

● Frozen ● Formalin

CE F0111 FITC. Ig fraction 2 mL

F0111 reacts with fibrinogen, fibrin and the fibrinogen fragments D and E.

Monoclonal Mouse Anti-Human
Follicle-Stimulating Hormone (FSH)

Clone: C10
Isotype: IgG1, kappa

● Formalin ● Enzyme

CE M3504 Culture supernatant 1 mL

Reacts with the β-subunit of FSH. By double monoclonal EIA, no detectable cross-reactivity was found against LH, TSH, βhCG, prolactin, hGH and hCG. The antibody labels gonadotrophic cells of the pituitary. Results aid in the classification of pituitary adenomas.

Monoclonal Mouse Anti-Human
Follicular Dendritic Cell

Clone: CNA.42
Isotype: IgM

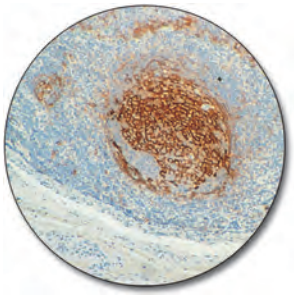
● Formalin ● HIER

CE M7157 Culture supernatant 1 mL

Recognizes a non-lineage restricted 120 kDa antigen expressed on follicular dendritic cells. This antibody is a useful aid for classification of nodular, lymphocyte-predominant Hodgkin's lymphoma, follicular dendritic reticulum cell sarcoma and EBV-positive inflammatory pseudotumors of FDC origin. This antibody is a good supplement for the demonstration of follicular dendritic cells (1, 2).

References:

1. Delsol G, Meggetto F, Brousset P, Cohen-Knafo E, Al Saati T, Rochaix P, et al. Relation of follicular dendritic reticulum cells to Reed-Sternberg cells of Hodgkin's disease with emphasis on the expression of CD21 antigen. Am J Pathol 1993;142:1729-38.
2. Raymond I, Al Saati T, Tkaczuk J, Chittal S, Delsol G. CNA.42, a new monoclonal antibody directed against a fixative-resistant antigen of follicular dendritic reticulum cells. Am J Pathol 1997;151:1577-85.



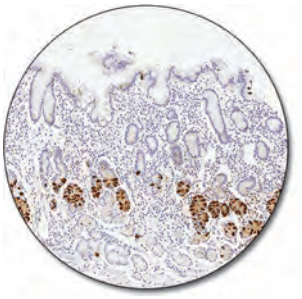
Tonsil (FFPE) stained with Anti-Follicular Dendritic Cell, Code M7157.

Polyclonal Rabbit Anti-Human
Gastrin

● Formalin

CE	A0568	Ig fraction	1 mL
CE	GA519	RTU★, FLEX	60 tests, 12 mL◆
CE	IR519	RTU★, FLEX	60 tests, 12 mL▲
CE	IS519	RTU★, FLEX	30 tests, 6 mL△

Gastrin is a peptide hormone that is important in the regulation of gastric acid secretion and mucosal cell proliferation. This antibody labels cells producing gastrin or structural gastrin analogues.



Gastrin-producing tumor (FFPE) stained with FLEX Anti-Gastrin, Code GA519, on Dako Omnis.

Monoclonal Mouse Anti-Human
Glial Fibrillary Acidic Protein (GFAP)

Clone: 6F2
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE M0761 Culture supernatant 1 mL

Labels astrocytes and some CNS ependymal cells. The antibody is a useful aid for classification of tumors of uncertain origin.

Polyclonal Rabbit Anti-
Glial Fibrillary Acidic Protein (GFAP)

● Frozen ● Formalin ● Enzyme/(HIER)

CE	Z0334	Ig fraction	0.2 mL/1 mL
CE	GA524	RTU★, FLEX	60 tests, 12 mL◆
CE	IR524	RTU★, FLEX	60 tests, 12 mL▲
CE	IS524	RTU★, FLEX	30 tests, 6 mL△

Glial fibrillary acidic protein (GFAP) is a 50 kDa intracytoplasmic filamentous protein that constitutes a portion of the cytoskeleton in astrocytes. With increasing astrocyte malignancy, there is a progressive loss of GFAP production. This antibody is a useful aid for the classification of astrocytoma and glioblastoma.

Reference:

1. Eng LF, Ghirnikar RS, Lee YL. Glial fibrillary acidic protein: GFAP-thirty-one years (1969-2000). Neurochem Res 2000;25:1439-51.

Glioblastoma (FFPE) stained with FLEX Anti-GFAP, Code GA524, on Dako Omnis.

Glycophorin A

See: CD235a, Glycophorin A

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
Glycophorin C

Clone: Ret40f
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M0820	Culture supernatant	1 mL

Reacts with all red cells and their precursors. Results aid in the classification of neoplasms derived from the erythroid lineage.

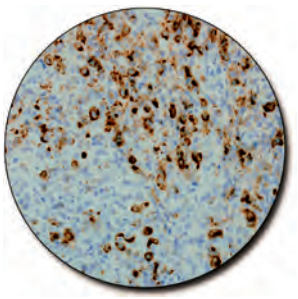
Monoclonal Mouse Anti-Human
Granzyme B

Clone: GrB-7
Isotype: IgG2a, kappa

● Formalin ● HIER

CE	M7235	Purified	1 mL

Recognizes granzyme B, a 29 kDa serine protease with chymotrypsin-like substrate specificity. Cytotoxic T lymphocytes (CTL) and natural killer (NK) cells are the major acteurs in the elimination of neoplastic and virally infected cells. The antibody is a useful aid for classification of T/NK-cell lymphomas with cytotoxic phenotypes.



NK-lymphoma (FFPE) stained with Anti-Granzyme B.

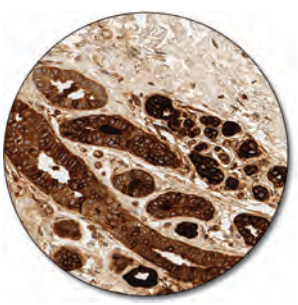
Monoclonal Mouse Anti-Human
Gross Cystic Disease Fluid Protein-15

Clone: 23A3
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

CE	M3638	Culture supernatant	1 mL
CE	GA077	RTU★, FLEX	60 tests, 12 mL◆
CE	IR077	RTU★, FLEX	60 tests, 12 mL▲
CE	IS077	RTU★, FLEX	30 tests, 6 mL△

Gross cystic disease fluid protein-15 (GCDFP-15) is a 15 kDa monomeric secretory glycoprotein encoded by the *prolactin-inducible protein (PIP)* gene. GCDFP-15 is a marker of apocrine differentiation, and is expressed in breast cystic fluid as well as in apocrine, lacrimal, ceruminous, Moll's and eccrine glands. Antibodies to GCDFP-15 are a useful aid for classification of breast carcinoma and metastatic tumors of breast origin.



Breast hyperplasia (FFPE) stained with FLEX Anti-GCDFP-15, Code GA077, on Dako Omnis.

Polyclonal Rabbit Anti-Human
Growth Hormone (hGH)

● Frozen ● Formalin

CE	A0570	Whole serum	1 mL

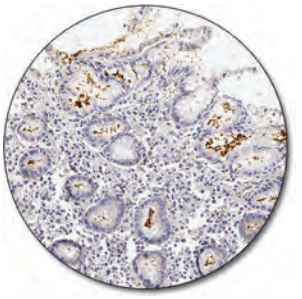
Reacts with growth hormone-producing cells in the pituitary and is a useful aid for classification of pituitary adenomas.

Polyclonal Rabbit Anti-
Helicobacter Pylori

● Formalin ● Enzyme/HIER

CE	B0471	Ig fraction	0.2 mL/1 mL
CE	GA523	RTU★, FLEX	60 tests, 12 mL◆
CE	IR523	RTU★, FLEX	60 tests, 12 mL▲
CE	IS523	RTU★, FLEX	30 tests, 6 mL△

H. pylori (formerly called *Campylobacter pylori*) is a spiral-shaped microaerophilic, Gram-negative rod with unipolar sheated flagella. It inhabits the mucus lining of the gastric epithelium. *H. pylori* is one of the most common pathogenic infections, which leads to serious gastroduodenal diseases in a subset of individuals. There is evidence supporting an association between *H. pylori* and chronic atrophic gastritis as well as gastric cancer. This antibody is useful for the identification of infections with *H. pylori* in gastritis and gastric cancer.



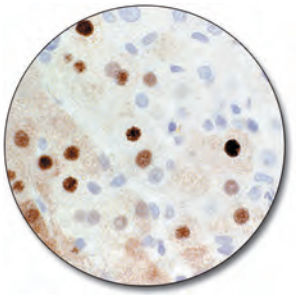
Gastric mucosa (FFPE) stained with FLEX Anti-Helicobacter Pylori, Code GA523, on Dako Omnis.

Polyclonal Rabbit Anti-
Hepatitis B Virus Core Antigen (HBcAg)

● Frozen ● Formalin ● Enzyme

RUO	B0586	Whole serum	1 mL

Labels nuclei and occasionally the cytoplasm of virus-infected liver cells.



Liver (FFPE) stained with Anti-HBcAg, Code B0586.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
Hepatocyte

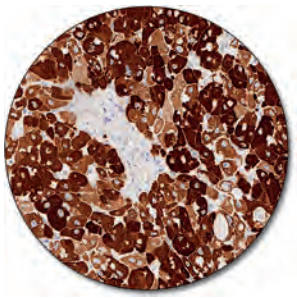
Clone: OCH1E5
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7158 Culture supernatant	1 mL
CE	GA624 RTU★, FLEX	60 tests, 12 mL◆
CE	IR624 RTU★, FLEX	60 tests, 12 mL▲
CE	IS624 RTU★, FLEX	30 tests, 6 mL△

The antigen recognized by this antibody is present in normal human hepatocytes and is conserved in a majority of hepatocellular carcinomas (1).The antibody is a useful aid for classification of hepatocellular carcinomas. The antibody does not label other tumors, except for some rare tumors of gastrointestinal origin.

Reference:
1. Minervini MI, Demetris AJ, Lee RG, Carr BI, Madariaga J, Nalesnik MA. Utilization of hepatocyte-specific antibody in the immunocytochemical evaluation of liver tumors. Mod Pathol 1997;10:686-92.



Hepatocellular carcinoma (FFPE) stained with FLEX Anti-Hepatocyte, GA624, on Dako Omnis.

Monoclonal Mouse Anti-Human
HER3

Clone: DAK-H3-IC
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

RUO	M7297 Culture supernatant	0.2 mL

Reacts with the intracellular domain of HER3. HER3 is 1 of 4 related members of the human epidermal growth factor receptor (HER) family. It is expressed in a wide variety of normal human tissues including the cells of the gastrointestinal, reproductive, respiratory and urinary tracts as well as the skin, endocrine and nervous system.

Polyclonal Rabbit Anti-
Herpes Simplex Virus Type 1

● Frozen ● Formalin

CE	B0114 Ig fraction	2 mL
CE	GA521 RTU★, FLEX	60 tests, 12 mL◆
CE	IR521 RTU★, FLEX	60 tests, 12 mL▲
CE	IS521 RTU★, FLEX	30 tests, 6 mL△

Herpes simplex virus (HSV) belongs to the *Herpesviridae* family of viruses. HSV infects cells of the mucoepithelia or the skin. The antibody reacts with type-specific, i.e. HSV-1, as well as with type-common, i.e. also with HSV-2 antigens.

Brain with herpes simplex virus (FFPE) stained with FLEX Anti-HSV1, Code GA521, on Dako Omnis.

Polyclonal Rabbit Anti-
Herpes Simplex Virus Type 2

● Frozen ● Formalin

CE	B0116 Ig fraction	2 mL

The antigen used for immunization has been prepared by sonication and extraction of herpes simplex virus type 2-infected rabbit cornea cells. In the antigen all the virus proteins are present. The antibody reacts with type-specific as well as with type-common antigens. B0116 is well-suited for a variety of techniques: demonstration of HSV in tissue culture or directly in specimens by immunofluorescence or immunoperoxidase techniques (1, 2); counter immunoelectrophoresis, crossed immunoelectrophoresis, virus neutralization; serological measurement and typing of HSV-specific antibodies by ELISA (3); detection and typing of HSV antigen in tissue culture and directly in specimens by ELISA.

References:
1. Schmidt NJ, Dennis J, Devlin V, Gallo D, Mills J. Comparison of direct immunofluorescence and direct immunoperoxidase procedures for detection of herpes simplex virus antigen in lesion specimens. J Clin Microbiol 1983;18:445-8.
2. Miller MJ, Howell CL. Rapid detection and identification of herpes simplex virus in cell culture by a direct immunoperoxidase staining procedure. J Clin Microbiol 1983;18:550-3.
3. Vestergaard BF, Grauballe PC. ELISA for herpes simplex virus (HSV) type-specific antibodies in human sera using HSV type 1 and type 2 polyspecific antigens blocked with type-heterologous rabbit antibodies. Acta path microbiol scand Sect. B 1979;87:261-3.

HIV

See: Human Immunodeficiency Virus (HIV), p24

Monoclonal Mouse Anti-Human
HLA-ABC Antigen

Clone: W6/32
Isotype: IgG2a, kappa

● Frozen

CE	M0736 Culture supernatant	1 mL

Is directed against a monomorphic epitope on the 45 kDa polypeptide products of the *HLA-A, B* and *C* loci. These antigens belong to class I of the mammalian major histocompatibility complex (MHC), in humans known as human leucocyte-associated antigens (HLA). The antibody is not intended for use in tissue typing.

Monoclonal Mouse Anti-Human
HLA-DP, DQ, DR Antigen

Clone: CR3/43
Isotype: IgG1, kappa

● Frozen ● Formalin

CE	M0775 Culture supernatant	1 mL

Reacts with the alpha and beta-chains of all products of the *DP*, *DQ* and *DR* subregions. These antigens belong to the histocompatibility (HLA) complex class II, or MHC class II. The antibody principally labels B cells, interdigitating reticulum cells, Langerhans' cells and many macrophages. In peripheral blood it labels B cells, most monocytes and activated T cells, but is unreactive with normal T cells and polymorphs. It is excellent on frozen as well as formalin-fixed, paraffin-embedded tissue sections. The antibody is not intended for use in tissue typing.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
HLA-DR Antigen, Alpha-Chain

Clone: TAL.1B5
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0746	Culture supernatant	1 mL

Reacts with the alpha-chain of monomorphic HLA-class II DR antigen and is valuable for analysing variations in class II expression. The antibody is not intended for use in tissue typing.

Monoclonal Mouse Anti-
Human Immunodeficiency Virus (HIV), p24

Clone: Kal-1
Isotype: IgG1, kappa

● Frozen ● (Formalin) ● Enzyme

RUO	M0857	Culture supernatant	1 mL

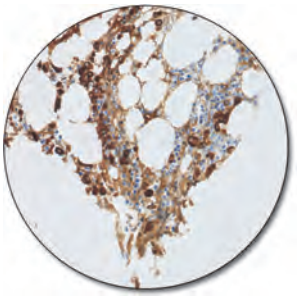
Reacts with the 24 kDa inner capsid protein of HIV.

Polyclonal Rabbit Anti-Human
IgA, Specific for Alpha-Chains

● Frozen ● Formalin ● Enzyme/HIER

CE	A0262	Ig fraction	1 mL
CE	F0204	FITC. Ig fraction	2 mL
CE	F0316	FITC. $F(ab')_2$	1 mL
CE	GA510	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR510	RTU★, FLEX	60 tests, 12 mL▲
CE	IS510	RTU★, FLEX	30 tests, 6 mL△

The antigen used for immunization is serum IgA. The very high specificity has been ascertained in immunohistochemistry as well as in indirect ELISA and immunoblotting. Additionally, the specificity has been tested by crossed immunoelectrophoresis using 12.5 µL antibody per square cm gel area against 2 µL human plasma.
The $F(ab')_2$ fragment antibody is particularly useful for labeling unfixed blood cells containing active Fc receptors, and for other applications where the Fc part of the antibody molecule could disturb.



Multiple myeloma (FFPE, bone marrow) stained with FLEX Anti-IgA, Code GA510, on Dako Omnis.

Polyclonal Rabbit Anti-Human
IgA, IgG, IgM, Kappa, Lambda

● Frozen ● Formalin ● Enzyme

CE	F0200	FITC. Ig fraction	2 mL
CE	P0212	HRP. Ig fraction	2 mL

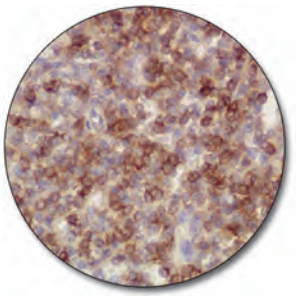
Very well-suited for the demonstration of human antibodies, no matter what the immunoglobulin class may be. F0200 has been developed particularly for the fluorescent treponemal antibody (FTA) test and for the demonstration of anti-nuclear antibodies (ANA) as well as other human autoantibodies.

Polyclonal Rabbit Anti-Human
IgD

● Formalin ● HIER

CE	IR517	RTU★, FLEX	60 tests, 12 mL▲
CE	IS517	RTU★, FLEX	30 tests, 6 mL△

The antibody reacts with delta-chains of human IgD. The antibody is a useful aid for classification of splenic marginal zone lymphoma, mantle cell lymphoma, B-cell lymphocytic lymphoma, and rare subsets of multiple myeloma.



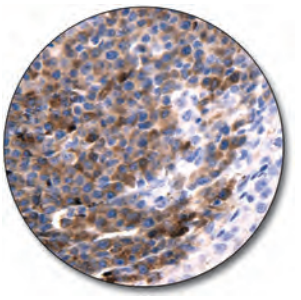
Mantle cell lymphoma (FFPE) stained with FLEX Anti-IgD, Code IR517/IS517.

Polyclonal Rabbit Anti-Human
IgG, Specific for Gamma-Chains

● Frozen ● Formalin ● Enzyme/HIER

CE	A0423	Ig fraction	1 mL
CE	D0336	AP. Affinity isolated	1 mL
CE	F0202	FITC. Ig fraction	2 mL
CE	F0315	FITC. $F(ab')_2$	1 mL
CE	P0214	HRP. Ig fraction	2 mL
CE	IR512	RTU★, FLEX	60 tests, 12 mL▲
CE	IS512	RTU★, FLEX	30 tests, 6 mL△

The very high specificity and good performance of the antibody have been ascertained in immunohistochemistry as well as in indirect ELISA and immunoblotting. Additionally, the specificity has been tested by crossed immunoelectrophoresis.
This antibody is useful for the identification of plasma cells and related lymphoid cells containing IgG, and it is a useful aid for classification of B-cell neoplasia.



Plasmacytoma IgG subtype (FFPE) stained with FLEX Anti-IgG, Code IR512/IS512.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Polyclonal Rabbit Anti-Human
IgM, Specific for Mu-Chains

● Frozen ● Formalin ● Enzyme/HIER

CE	A0425	Ig fraction	1 mL
CE	F0203	FITC. Ig fraction	2 mL
CE	F0317	FITC. $F(ab')_2$	1 mL
CE	P0215	HRP. Ig fraction	2 mL
CE	GA513	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR513	RTU★, FLEX	60 tests, 12 mL▲
CE	IS513	RTU★, FLEX	30 tests, 6 mL△

The very high specificity has been ascertained in immunohistochemistry as well as in indirect ELISA and immunoblotting. Additionally, the specificity has been tested by crossed immunoelectrophoresis using 12.5 µL antibody per square cm gel area against 2 µL human plasma.
The $F(ab')_2$ fragment antibody is particularly useful for labeling unfixed blood cells containing active Fc receptors. This antibody is useful for the identification of plasma cells and related lymphoid cells containing IgM. It is a useful aid for classification of B-cell neoplasia.

Mantle cell lymphoma (FFPE) stained with FLEX Anti-IgM, Code GA513, on Dako Omnis.

Monoclonal Mouse Anti-Human
IMP3

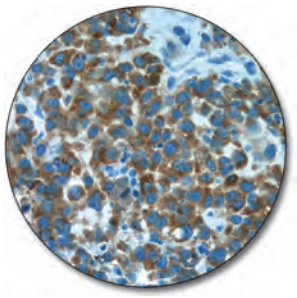
Clone: 69.1
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

CE	M3626	Culture supernatant	0.2 mL

IMP3, insulin-like growth factor II mRNA binding protein 3, is a 580 amino acid oncofetal RNA binding protein containing four K homology domains. IMP3 is normally expressed in early embryonic tissues. Results aid in the classification of non-small cell lung carcinomas and pancreatic adenocarcinomas as well as subsets of carcinomas from other organs such as bladder, cervix, colon, esophagus and stomach.
References:

1. Wang T, Fan L, Watanabe Y, McNeill PD, Moulton GG, Bangur C, et al. L523S, an RNA-binding protein as a potential therapeutic target for lung cancer. Br J Cancer 2003;88:887-94.
2. Istvanic S, Fanger GR, Fraire AE, Khan A, Li C, Yantiss, RK. Spectrum of KOC (K homology domain containing protein over-expressed in cancer) immunostaining among carcinomas of different sites. Mod Pathol 2005;18:298A-9A.



Mesothelioma (FFPE) stained with Anti-IMP3, Code M3626.

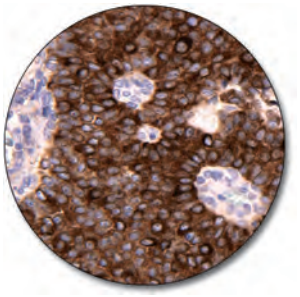
Monoclonal Mouse Anti-Human
Inhibin α

Clone: R1
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

CE	M3609	Culture supernatant	1 mL
CE	IR058	RTU★, FLEX	60 tests, 12 mL▲
CE	IS058	RTU★, FLEX	30 tests, 6 mL△

Inhibin is a dimeric glycoprotein hormone comprised of an α and a β subunit. It is produced by ovarian granulosa cells and inhibits the production or secretion of pituitary gonadotropins, particularly follicle-stimulating hormone. The antibody was raised against the terminal 1-32 amino acid sequence of the inhibin α subunit. The antibody is a useful aid for classification of sex-cord-stromal tumors.



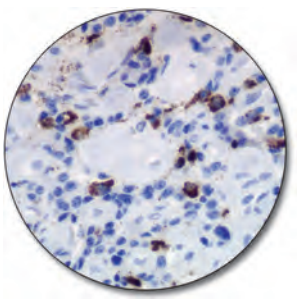
Granulosa cell tumor (FFPE) stained with FLEX Anti-Inhibin α, Code IR058/IS058.

Polyclonal Guinea Pig Anti-
Insulin

● Formalin

CE	A0564	Ammonium sulphate fraction	1 mL
CE	IR002	RTU★, FLEX	60 tests, 12 mL▲
CE	IS002	RTU★, FLEX	30 tests, 6 mL△

Insulin is one of seven known polypeptide hormones produced in the pancreas. Insulin, secreted by B cells of the islets of Langerhans, participates in glucose utilization, protein synthesis and in the formation and storage of neutral lipids. This antibody labels insulin and results aid in the classification of insulin-producing cells in normal and neoplastic tissue.



Insulinoma (FFPE) stained with FLEX Anti-Insulin, Code IR002/IS002.

Polyclonal Rabbit Anti-Human
Kappa Light Chains

● Frozen ● Formalin ● Enzyme/HIER

CE	A0191	Ig fraction	2 mL
CE	F0198	FITC. Ig fraction	2 mL
CE	GA506	RTU★, FLEX	60 tests, 12 mL◆
CE	IR506	RTU★, FLEX	60 tests, 12 mL▲
CE	IS506	RTU★, FLEX	30 tests, 6 mL△

These reagents have been produced in a manner that ensures a particularly wide specificity for kappa-chains. The specificity is directed against surface as well as hidden determinants and has been ascertained by gel precipitation techniques and immunohistochemistry. This antibody is useful for the identification of plasma cells and related lymphoid cells containing kappa light chains, and it is a useful aid for classification of monoclonal gammopathies.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Tonsil (FFPE) stained with FLEX Anti-Kappa Light Chains, Code GA506, on Dako Omnis.

Keratin

See: Cytokeratin

Ki-1 Antigen

See: CD30

Monoclonal Mouse Anti-Human
Ki-67 Antigen

Clone: MIB-1
Isotype: IgG1, kappa

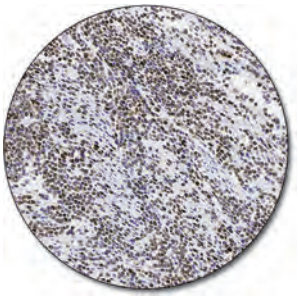
● Frozen ● Formalin ● HIER

CE	M7240	Culture supernatant	0.2 mL/1 mL
CE	GA626	RTU★, FLEX	60 tests, 12 mL◆
CE	IR626	RTU★, FLEX	60 tests, 12 mL▲
CE	IS626	RTU★, FLEX	30 tests, 6 mL△

With more than 4000 literature citations, the MIB-1 antibody has now been established as an important monoclonal mouse antibody for the demonstration of the Ki-67 antigen in formalin-fixed, paraffin-embedded specimens. The Ki-67 antigen is a large nuclear protein (345, 395 kDa) preferentially expressed during all active phases of the cell cycle (G_1, S, G_2 and M-phases), but absent in resting cells (G_0-phase). The antibody is a useful aid for classification of a variety of tumors.

References:

1. Gerdes J, Becker MH, Key G, Cattoretti G. Immunohistological detection of tumour growth fraction (Ki-67 antigen) in formalin-fixed and routinely processed tissues. J Pathol 1992;168:85-6.
2. Cattoretti G, Becker MH, Key G, Duchrow M, Schlüter C, Galle J, et al. Monoclonal antibodies against recombinant parts of the Ki-67 antigen (MIB 1 and MIB 3) detect proliferating cells in microwave-processed formalin-fixed paraffin sections. J Pathol 1992;168:357-63.
3. Scholzen T, Gerdes J. The Ki-67 protein: from the known and the unknown [review]. J Cell Physiol 2000;182:311-22.



High grade lymphoma (FFPE) stained with FLEX Anti-Ki-67, Code GA626, on Dako Omnis.

Monoclonal Mouse Anti-Rat
Ki-67 Antigen

Clone: MIB-5
Isotype: IgG1

● Frozen ● Formalin ● HIER

RUO	M7248	Culture supernatant	1 mL

The MIB-5 antibody is the antibody of choice for demonstration of the Ki-67 antigen in formalin-fixed, paraffin-embedded **rat specimens**. The antibody also labels mouse Ki-67 antigen. The Ki-67 antigen is a large nuclear protein (345, 395 kDa) preferentially expressed during all active phases of the cell cycle (G_1, S, G_2 and M phases), but absent in resting (G_0) cells.

L523S Protein

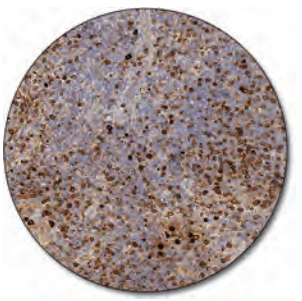
See: IMP3

Polyclonal Rabbit Anti-Human
Lambda Light Chains

● Frozen ● Formalin ● Enzyme/HIER

CE	A0193	Ig fraction	2 mL
CE	F0199	FITC. Ig fraction	2 mL
CE	GA507	RTU★, FLEX	60 tests, 12 mL◆
CE	IR507	RTU★, FLEX	60 tests, 12 mL▲
CE	IS507	RTU★, FLEX	30 tests, 6 mL△

The antigen used for immunization is a pool of human lambda Bence Jones proteins. Therefore, a reagent with a particularly wide specificity for lambda-chains is obtained. The specificity is directed against surface as well as hidden determinants and has been ascertained by gel precipitation techniques and immunohistochemistry. The antibody labels plasma cells and related lymphoid cells containing lambda light chains, and it is a useful aid for classification of monoclonal gammopathies.



Tonsil (FFPE) stained with FLEX Anti-Lambda Light Chains, Code GA507, on Dako Omnis.

Monoclonal Mouse Anti-Human
Laminin

Clone: 4C7
Isotype: IgG2a, kappa

● Frozen ● Formalin ● Enzyme

CE	M0638	Ascites	1 mL

Reacts with a 380 kDa laminin alpha5-chain. Fibroblasts, epithelial, endothelial and smooth muscle cells secrete laminin. In normal tissues, laminin is invariably present in all basal membranes surrounding muscle, nerve, fat and decidua cells and separating epithelial and endothelial cells from connective tissues.

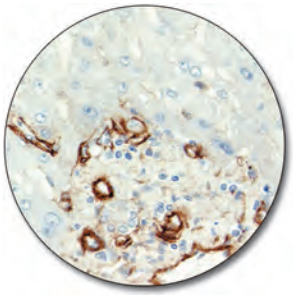
◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Polyclonal Rabbit Anti-
Laminin

● Frozen ● Formalin ● Enzyme

CE Z0097 Ig fraction 1 mL

Laminin, isolated from a rat yolk sac tumor cell line, has been used for immunization. The antibody reacts strongly with human laminin, and labels basement membranes surrounding normal vessels, glands, muscles, nerves, fat and decidua cells, separating these from abutting connective tissues. Loss of basement membrane integrity may be observed in neoplastic invasion and around metastatic lesions.



Liver (FFPE) stained with Anti-Laminin, Code Z0097.

Monoclonal Mouse Anti-Human
Laminin-5, Gamma-2 Chain

Clone: 4G1
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE M7262 Culture supernatant 1 mL

The expression of laminin-5 is restricted to epithelial tissues, where the protein is part of the epithelial anchoring systems and cell locomotion. Of the 15 laminins presently known, only laminin-5 contains the γ2 chain. This antibody is specific for the γ2 chain. Results aid in the classification of invading epithelial cancer cells in various types of squamous cell carcinomas, colon adenocarcinomas and lung adenocarcinomas.

References:

1. Skyldberg B, Salo S, Eriksson E, Aspenblad U, Moberger B, Tryggvason K, et al. Laminin-5 as a marker of invasiveness in cervical lesions. J Natl Cancer Inst 1999;91:1882-7.
2. Määttä M, Soini Y, Pääkkö P, Salo S, Tryggvason K, Autio-Harmainen H. Expression of the laminin γ2 chain in different histological types of lung carcinoma. A study by immunohistochemistry and in situ hybridisation. J Pathol 1999;188:361-8.

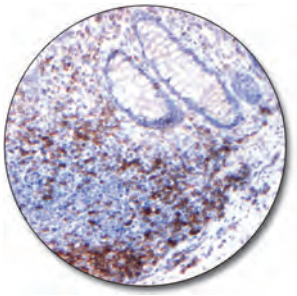
Monoclonal Mouse Anti-Human
LAT Protein

Clone: LAT-1
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE M7279 Culture supernatant 0.2 mL

LAT (linker for activation of T cells) protein appears early in the T-cell development, at the thymocyte stage, and before expression of terminal deoxynucleotidyl transferase (TdT) in embryos. It is expressed by natural killer cells and T cells without restriction to any T-cell subpopulation. Megakaryocytes and mast cells also express LAT protein, whereas other myeloid cells, monocytic derived cells and B cells do not express LAT protein.



Colon carcinoma (FFPE) stained with Anti-LAT Protein, Code M7279.

Leucocyte Common Antigen

See: CD45, Leucocyte Common Antigen

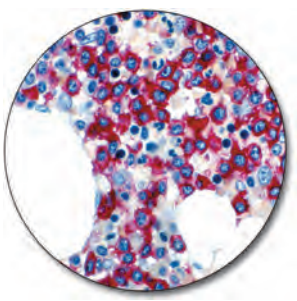
Monoclonal Mouse Anti-Human
Leukaemia, Hairy Cell

Clone: DBA.44
Isotype: IgM, kappa

● Frozen ● Formalin ● (Enzyme)/HIER

CE M0880 Culture supernatant 1 mL

Results aid in the classification of hairy cell leukemia.



Bone marrow interstitial infiltration (FFPE) stained with Anti-Hairy Cell Leukaemia, Code M0880.

Monoclonal Mouse Anti-Human
Luteinizing Hormone (LH)

Clone: C93
Isotype: IgG1, kappa

● Formalin

CE M3502 Culture supernatant 1 mL

Reacts with the β-chain of luteinizing hormone. By radioimmunoassay, this antibody was determined to be 100% reactive with hLH, 1.5% with hCG, 0.44% with hFSH and less than 1.0% with hTSH. The antibody labels gonadotrophic cells of the pituitary. Results aid in the classification of pituitary adenomas.

Polyclonal Rabbit Anti-Human
Lysozyme EC 3.2.1.17 (Muramidase)

● Formalin ● Enzyme

CE A0099 Ig fraction 2 mL

A0099 has been used for classification of histiocytic neoplasias and myeloid leukemias (1, 2). Lysozyme isolated from urine of patients with monocytic leukemia has been used for immunization.

References:

1. Meister P, Huhn D, Nathrath W. Malignant histiocytosis. Immunohistochemical characterization on paraffin-embedded tissue. Virchows Arch A Path Anat Histol 1980;385:233-46.
2. Krugliak L, Meyer PR, Taylor CR. The distribution of lysozyme, alpha-1-antitrypsin, and alpha-1-antichymotrypsin in normal hematopoietic cells and in myeloid leukaemias. Am J Hematol 1986;21:99-109.

Monoclonal Mouse Anti-Rabbit
Macrophage

Clone: RAM11
Isotype: IgG1, kappa

● Frozen ● Formalin

RUO	M0633	Culture supernatant	1 mL

Labels rabbit macrophages and may be used in studies of the cellular components of atherosclerotic lesions in rabbits.

Monoclonal Mouse Anti-Human
Mammaglobin

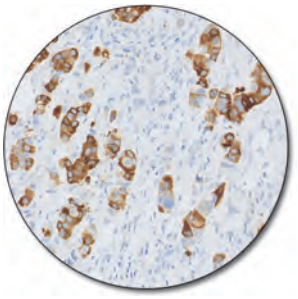
Clone: 304-1A5
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3625	Culture supernatant	0.2 mL
CE	GA074	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR074	RTU★, FLEX	60 tests, 12 mL▲
CE	IS074	RTU★, FLEX	30 tests, 6 mL△

Mammaglobin, a 93-amino acid glycoprotein, is encoded by a gene first identified in a study directed at the isolation of novel human breast cancer-associated genes (1). Mammaglobin expression is mostly, although not exclusively, confined to breast tissue, and anti-mammoglobin is a useful aid for the classification of carcinomas of breast origin.

Reference:
1. Watson MA, Dintzis S, Darrow CM, Voss LE, DiPersio J, Jensen R, et al. Mammaglobin expression in primary, metastatic, and occult breast cancer. Cancer Res 1999;59:3028-31.



Invasive ductal carcinoma (FFPE) stained with FLEX Anti-Mammaglobin, Code GA074, on Dako Omnis.

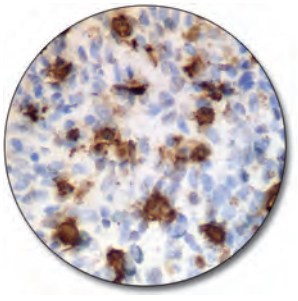
Monoclonal Mouse Anti-Human
Mast Cell Tryptase

Clone: AA1
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7052	Culture supernatant	0.2 mL
CE	IR640	RTU★, FLEX	60 tests, 12 mL▲
CE	IS640	RTU★, FLEX	30 tests, 6 mL△

Human mast cell tryptases comprise a family of trypsin-like neutral serine proteases that are predominantly expressed in mast cells. These cells play an active role in such diverse diseases as atherosclerosis, asthma, arthritis, bile duct fibrosis, malignancy and pulmonary fibrosis. This antibody is a useful aid for classification of mast cell leukemia.



Mastocytosis in the subcutis (FFPE) stained with FLEX Anti-Mast Cell Tryptase, Code IR640/IS640.

Monoclonal Mouse Anti-Human
MCM3 Protein

Clone: 101
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M7263	Culture supernatant	0.2 mL

MCM3 protein is expressed in proliferating cells but disappears more slowly after initiation of cell differentiation than the Ki-67 antigen. This observation, correlated with the fact that MCM3 protein is not expressed when a marker of terminal differentiation, such as p27, is expressed, indicates that antibodies against MCM3 protein also label cells that have ceased to proliferate, but are not terminally differentiated (1).

Reference:
1. Endl E, Kausch I, Baack M, Knippers R, Gerdes J, Scholzen T. The expression of Ki-67, MCM3, and p27 defines distinct subsets of proliferating, resting, and differentiated cells. J Pathol 2001;195:457-62.

Monoclonal Mouse Anti-Human
Melan-A

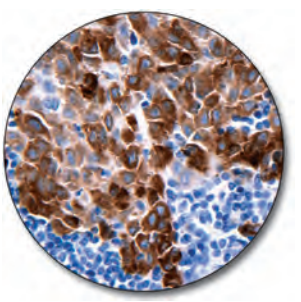
Clone: A103
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7196	Culture supernatant	0.2 mL/1 mL
CE	IR633	RTU★, FLEX	60 tests, 12 mL▲
CE	IS633	RTU★, FLEX	30 tests, 6 mL△

Melan-A, isolated as a melanoma-specific antigen, is a transmembrane protein, which is expressed in skin, retina and the majority of cultured melanocytes as well as in melanomas and angiomyolipomas. The antibody is a useful aid for classification of melanomas and adrenocortical carcinomas. The antibody is also a useful aid for classification of angiomyolipomas.

References:
1. Fetsch PA, Cormier J, Hijazi YM. Immunocytochemical detection of MART-1 in fresh and paraffin-embedded malignant melanomas. J Immunother 1997;20:60-4.
2. Kawakami Y, Eliyahu S, Delgado CH, Robbins PF, Sakaguchi K, Apella E, et al. Identification of a human melanoma antigen recognized by tumor-infiltrating lymphocytes associated with in vivo tumor rejection. Proc Natl Acad Sci USA 1994;91:6458-62.



Melanoma (FFPE) stained with FLEX Anti-Melan-A, Code IR633/IS633.

Dako FLEX RTU Antibodies for Skin Testing

See our panel of FLEX antibodies at page 72

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

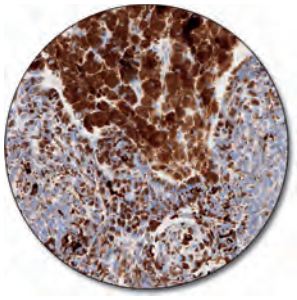
Monoclonal Mouse Anti-Human
Melanosome

Clone: HMB-45
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M0634 Culture supernatant	0.2 mL/1 mL
CE	GA052 RTU★, FLEX	60 tests, 12 mL◆
CE	IR052 RTU★, FLEX	60 tests, 12 mL▲
CE	IS052 RTU★, FLEX	30 tests, 6 mL△

Labels an intracytoplasmic antigen in the majority of melanocytes with immature melanosome formation in normal skin and nevus. The antibody also reacts with junctional and blue nevus cells. Results aid in the classification of melanomas and melanocytic lesions.



Melanoma (FFPE) stained with FLEX Anti-Melanosome, Code GA052, on Dako Omnis.

Monoclonal Mouse Anti-Human
Mesothelial Cell

Clone: HBME-1
Isotype: IgM

● Frozen ● Formalin

CE	M3505 Culture supernatant	1 mL

Reacts with an antigen present in the membrane of mesothelial cells. No reactivity has been observed on kidney, liver, placenta, skin and thyroid. The antibody is a useful aid for classification of epithelial mesotheliomas and adenocarcinomas of various origin.

Reference:
1. Miettinen M, Kovatich AJ. HMBE-1 a monoclonal antibody useful in the differential diagnosis of mesothelioma, adenocarcinoma, and soft-tissue and bone tumors. Appl Immunohistochem 1995;3:115-22.

Monoclonal Mouse Anti-
Metallothionein

Clone: E9
Isotype: IgG1, kappa

● Frozen ● Formalin

CE	M0639 Ascites	1 mL

Reacts with a conserved epitope shared by human metallothionein isoforms 1 and 2. Metallothioneins are low molecular weight, heavy metal-binding proteins. The expression of metallothioneins is induced by heavy metals, but also by other factors such as stress, glucocorticoids and lymphokines.

MIB-1

See: Ki-67 Antigen

MIC2 Gene Products, Ewing's Sarcoma Marker

See: CD99, MIC2 Gene Products, Ewing's Sarcoma Marker

Monoclonal Mouse Anti-Human
MITF

Clone: D5
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3621 Culture supernatant	0.2 mL

MITF (microphthalmia transcription factor) is a basic helix-loop-helix-leucine-zipper (bHLH-Zip) transcription factor that regulates the development and survival of melanocytes and retinal pigment epithelium, and also is involved in transcription of pigmentation enzyme genes such as tyrosinase TRP1 and TRP2. MITF has been shown to be phosphorylated by MAP kinase in response to c-kit activation, resulting in upregulation of MITF transcriptional activity. Multiple isoforms of MITF exist, including MITF-A, MITF-B, MITF-C, MITF-H, and MITF-M, which differ in the amino-terminal domain and in their expression patterns. The MITF-M isoform is restricted to the melanocyte cell lineage. Anti-MITF, D5, recognizes a nuclear protein and is a useful aid for classification of primary and metastatic epithelioid malignant melanomas.

Mouse Ki-67 Antigen

See: Ki-67 Antigen

Monoclonal Mouse Anti-Human
MUC2

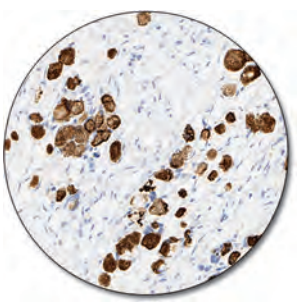
Clone: CCP58
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M7313 Culture supernatant	0.2 mL/1 mL
CE	IR658 RTU★, FLEX	60 tests, 12 mL▲

Mucin 2 glycoprotein (MUC2) is a 520 kDa glycoprotein belonging to the superfamily of mucins. Mucins are high molecular weight glycoproteins produced by epithelial cells and can be divided into two families; secretory mucins and membrane bound mucins. MUC2 is a mucus-forming secreted mucin found in the cytoplasm of goblet cells in small intestine, colon, bronchus and salivary glands. MUC2 expression has been noted in primary gastrointestinal tract tumors of colonic, gastric and esophageal origin (1). MUC2 expression has also been found in goblet cells in colorectal carcinoma metastatic to the ovary, but not in primary mucinous ovarian adenocarcinoma. This antibody is a useful aid for classification of mucinous adenocarcinoma of gastrointestinal origin (1, 2) and intestinal metaplasia in Barrett's esophagus. Anti-MUC2 may also be a useful aid for classification of colon adenocarcinoma metastatic to the ovary.

References:
1. Lau SK, Weiss LM, Chu PG. Differential expression of MUC1, MUC2 and MUC5AC in carcinomas of various sites. Am J Clin Pathol 2004;122:61-9.
2. Lee HS, Lee HK, Kim HS, Yang HK, Kim YI, Kim WH. MUC1, MUC2, MUC5AC, and MUC6 expression in gastric carcinomas. Cancer 2001;92:1427-34.



Colon adenocarcinoma (FFPE) metastatic to the ovary stained with FLEX Anti-MUC2, Code IR658.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

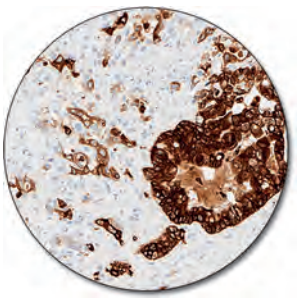
Monoclonal Mouse Anti-Human
MUC5AC

Clone: CLH2
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M7316 Culture supernatant	0.2 mL/1 mL
CE	IR661 RTU★, FLEX	60 tests, 12 mL▲

Mucin 5AC glycoprotein (MUC5AC) is a 641 kDa glycoprotein belonging to the superfamily of mucins. Mucins are high molecular weight glycoproteins produced by epithelial cells and can be divided into two families; secretory mucins and membrane bound mucins. MUC5AC is a mucus-forming secreted mucin that is found in normal gastric and tracheo-bronchial mucosa, but absent from normal colon. MUC5AC expression is present in primary ovarian mucinous cancer but usually absent in colorectal adenocarcinoma, thus showing an expression pattern opposite to MUC2.
Anti-MUC5AC is a useful aid for classification of primary mucinous ovarian tumors. MUC5AC antibodies are also a useful aid for classification of intestinal metaplasia as well as in the classification of pancreatic carcinoma.



Mucinous ovarian carcinoma (FFPE) stained with FLEX Anti-MUC5AC, Code IR661.

Monoclonal Mouse Anti-Human
MUM1 Protein

Clone: MUM1p
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M7259 Culture supernatant	0.2 mL/1 mL
CE	GA644 RTU★, FLEX	60 tests, 12 mL◆
CE	IR644 RTU★, FLEX	60 tests, 12 mL▲
CE	IS644 RTU★, FLEX	30 tests, 6 mL△

Labels MUM1 protein in a subset of light zone germinal centre (GC) B cells (probably centrocytes and their progeny), plasma cells and activated T cells. Antibodies to MUM1 protein are a useful aid for classification of a wide spectrum of hematolymphoid neoplasms derived from these cells. Of non-hematolymphoid neoplasms only a proportion of melanomas are labeled (1, 2). Antibodies to MUM1 protein are a useful aid for subclassification of B-cell lymphomas (1-3).

References:

1. Falini B, Fizzotti M, Pucciarini A, Bigerna B, Marafioti T, Gambacorta M, et al. A monoclonal antibody (MUM1p) detects expression of the MUM1/IRF4 protein in a subset of germinal center B cells, plasma cells, and activated T cells. Blood 2000;95;2084-92.
2. Natkunam Y, Warnke RA, Montgomery K, Falini B, van de Rijn M. Analysis of MUM1/IRF4 protein expression using tissue microarrays and immunohistochemistry. Mod Pathol 2001;14:686-94.
3. Gaidano G, Carbone A. MUM1: a step toward the understanding of lymphoma histogenesis. Leukemia 2000;14:563-6.

Diffuse large B-cell lymphoma (FFPE) stained with FLEX Anti-MUM1, Code GA644, on Dako Omnis.

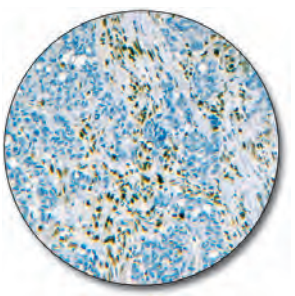
Monoclonal Mouse Anti-Human
MutL Protein Homolog 1

Clone: ES05
Isotype: IgG1

● Formalin ● HIER

CE	M3640 Culture supernatant	0.2 mL/1 mL
CE	IR079 RTU★, FLEX	60 tests, 12 mL▲
CE	IS079 RTU★, FLEX	30 tests, 6 mL△

Mismatch repair gene *hMLH1* is a ubiquitous gene encoding the mismatch repair protein (MMR) known as MutL protein homolog 1 (MLH1). MLH1 is utilized by normal proliferating cells to repair point mutations that may occur during DNA replication. Antibodies to MLH1 are a useful aid for classification of colorectal cancer.



Colon adenocarcinoma (FFPE) stained with FLEX Anti-MutL Protein Homolog 1, Code IR079/IS079.

Monoclonal Mouse Anti-Human
MutS Protein Homolog 2

Clone: FE11
Isotype: IgG1, kappa

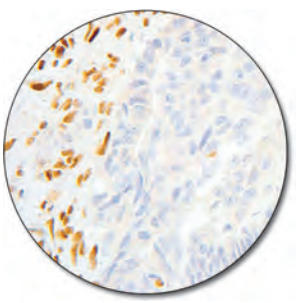
● Formalin ● HIER

CE	M3639 Ascites, protein A purified	0.2 mL/1 mL
CE	IR085 RTU★, FLEX	60 tests, 12 mL▲

MutS protein homolog 2 (MSH2) is part of the mismatch repair (MMR) pathway which is utilized by normal proliferating cells to repair mutations that may occur during DNA replication. Antibodies to MSH2 are a useful aid for classification of tumors of the gastrointestinal tract, including associated extracolonic cancers.

References:

1. Peltomäki P. Role of DNA mismatch repair defects in the pathogenesis of human cancer. J Clin Oncol 2003;21:1174-9.
2. Lynch H. Smyrk, T. Hereditary nonpolyposis colorectal cancer (Lynch syndrome). An updated review. Cancer 1996;78:1149-67.



Colon adenocarcinoma (FFPE) with loss of MSH2 protein stained with FLEX Anti-MSH2, Code IR085.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Rabbit Anti-Human
MutS Protein Homolog 6

Clone: EP49

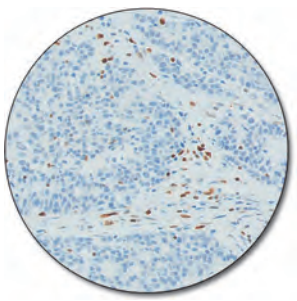
● Formalin ● HIER

CE	M3646	Affinity-isolated	0.2 mL/1 mL
CE	IR086	RTU★, FLEX	60 tests, 12 mL▲

MutS protein homolog 6 (MSH6) is part of the mismatch repair (MMR) pathway which is utilized by normal proliferating cells to repair mutations that may occur during DNA replication. Antibodies to MSH6 may be a useful aid for classification of tumors of the gastrointestinal tract, including associated extracolonic cancers

References:

1. Peltomäki P. Role of DNA mismatch repair defects in the pathogenesis of human cancer. J Clin Oncol 2003;21:1174-9.
2. Lynch H. Smyrk, T. Hereditary nonpolyposis colorectal cancer (Lynch syndrome). An updated review. Cancer 1996;78:1149-67.



Colon adenocarcinoma (FFPE) with loss of MSH6 protein stained with FLEX Anti-MSH6, Code IR086.

Polyclonal Rabbit Anti-Human
Myelin Basic Protein

● Formalin

CE	A0623	Ig fraction	1 mL

Labels myelin membranes of oligodendrocytes and Schwann cells.

Monoclonal Mouse Anti-Human
Myeloid/Histiocyte Antigen

Clone: MAC 387
Isotype: IgG1, kappa

● Formalin ● (Enzyme)

CE	M0747	Culture supernatant	1 mL

Reacts with a human cytoplasmic antigen (L1-antigen or calprotectin) which contains two different subunits (L1H and L1L). The protein is a member of the S100 family, and the subunits are in this context termed S100A8 and S100A9. It is expressed in granulocytes, blood monocytes, tissue histiocytes, squamous mucosal epithelia, and reactive epidermis. The antibody is a useful aid for classification of malignant lymphomas and lymphoid neoplasms of histiocytic origin.

References:

1. Fagerhol MK. Nomenclature for proteins: is calprotectin a proper name for the elusive myelomonocytic protein? J Clin Pathol: Mol Pathol 1996;49:M74-9.
2. Schäfer BW, Heizmann CW. The S100 family of EF-hand calciumbinding proteins: functions and pathology. Trends Biochem Sci 1996;21:134-40.

Polyclonal Rabbit Anti-Human
Myeloperoxidase

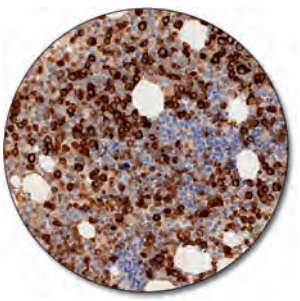
● Formalin ● Enzyme/HIER

CE	A0398	Ig fraction	0.2 mL
CE	GA511	RTU★, FLEX	60 tests, 12 mL◆
CE	IR511	RTU★, FLEX	60 tests, 12 mL▲
CE	IS511	RTU★, FLEX	30 tests, 6 mL△

The antigen has been isolated from primary granulocytes (1). The antibody reacts with neutrophil granulocytes and monocytes in blood and with precursors of granulocytes in the bone marrow. The antibody is useful as an aid for classification of neoplastic tissue, i.e. myeloblasts and immature myeloid cells of acute myelogenous leukemia, progranulocytic leukemia, monomyelocytic leukemia, erythroleukemia and myeloblastoma (2).

References:

1. Matheson NR, Wong PS, Travis J. Isolation and properties of human neutrophil myeloperoxidase. Biochem 1981;20:325-30.
2. Pinkus GS, Pinkus JI. Myeloperoxidase: a specific marker for myeloid cells in paraffin sections. Mod Pathol 1991;4:733-41.



Acute myeloid leukemia (FFPE) stained with FLEX Anti-Myeloperoxidase, Code GA511, on Dako Omnis.

Monoclonal Mouse Anti-
MyoD1

Clone: 5.8A
Isotype: IgG1, kappa

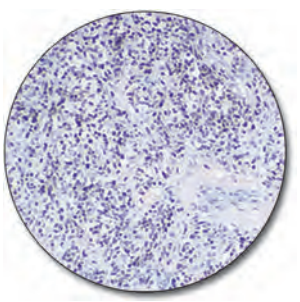
● Frozen ● Formalin ● HIER

CE	M3512	Culture supernatant	1 mL

The MyoD1 protein is a 45 kDa nuclear phosphoprotein which induces myogenesis through transcriptional activation of muscle-specific genes. Nuclear expression of MyoD1 is restricted to skeletal muscle tissue and has been demonstrated to be a sensitive marker of myogenic differentiation. The antibody strongly labels the nuclei of myoblasts in developing skeletal muscle tissue, whereas the majority of adult skeletal muscle is negative. Results aid in the classification of rhabdomyosarcomas of various histological subtypes.

Reference:

1. Dias P, Parham DM, Shapiro DN, Tapscott SJ, Houghton PJ. Monoclonal antibodies to the myogenic regulatory protein MyoD1: epitope mapping and diagnostic utility. Cancer Res 1992;52:6431-9.



Rhabdomyosarcoma (FFPE) stained with Anti-MyoD1, Code M3512.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

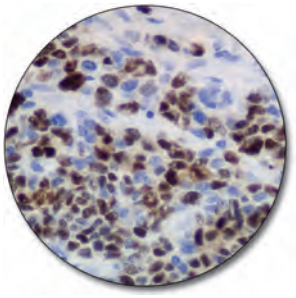
Monoclonal Mouse Anti-
Myogenin

Clone: F5D
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3559	Ig fraction of culture supernatant	1 mL
CE	IR067	RTU★, FLEX	60 tests, 12 mL▲
CE	IS067	RTU★, FLEX	30 tests, 6 mL△

Myogenin belongs to a family of regulatory proteins essential for muscle development. Expression of myogenin is restricted to cells of skeletal muscle origin, and appears to be inversely related to the degree of cellular differentiation. The antibody recognizes an epitope located in the amino acid region 138-158 of the myogenin protein. The antibody is a useful aid for classification of rhabdomyosarcomas and Wilms' tumors. No reactivity with Ewing's sarcoma/peripheral primitive neuroectodermal tumor, neuroblastoma, or adult skeletal muscle has been observed. Myogenin peptide from rat has been used for immunization.



Rhabdomyosarcoma (FFPE) stained with FLEX Anti-Myogenin, Code IR067/IS067.

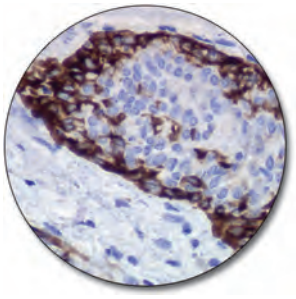
Monoclonal Mouse Anti-Human
Myosin Heavy Chain (Smooth Muscle)

Clone: SMMS-1
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme + HIER

CE	M3558	Culture supernatant	1 mL
CE	IR066	RTU★, FLEX	60 tests, 12 mL▲
CE	IS066	RTU★, FLEX	30 tests, 6 mL△

Reacts with smooth muscle cells and myoepithelial cells, but not with myofibroblasts. The antibody is a useful aid for classification of breast tumors.



Breast hyperplasia (FFPE) stained with FLEX Anti-Myosin Heavy Chain (Smooth Muscle), Code IR066/IS066.

Monoclonal Mouse Anti-Human
N-Cadherin

Clone: 6G11
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3613	Culture supernatant	1 mL

N-cadherin is a 140 kDa protein belonging to a family of transmembrane molecules that mediate calcium-dependent intercellular adhesion. Cadherins are involved in controlling morphogenetic movements during development and regulate cell surface adhesion through homotypic adhesion with the same cadherin species.

Expression of N-cadherin has been reported on a variety of normal tissues including neuronal, endothelial and muscle cells, and a subpopulation of early hematopoietic progenitor cells. Results aid in the classification of malignant noncarcinomatous neoplasms including mesotheliomas, chordomas, synovial sarcomas, malignant melanomas, epithelioid sarcomas, epithelioid angiosarcomas, clear cell sarcomas as well as serous and endometrioid tumors of the ovary have been demonstrated to be N-cadherin positive, whereas mucinous tumors are negative. Other N-cadherin-positive neoplasms include renal cell carcinomas and some variant breast tumors, including medullary breast carcinomas and sarcomatoid metaplastic breast carcinomas.

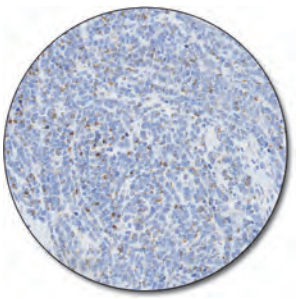
Monoclonal Mouse Anti-Human
Neurofilament Protein

Clone: 2F11
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0762	Culture supernatant	0.2 mL
CE	GA607	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR607	RTU★, FLEX	60 tests, 12 mL▲
CE	IS607	RTU★, FLEX	30 tests, 6 mL△

Neurofilaments belong to the family of intermediate filaments and are structural elements of the neuronal cytoskeleton in an interconnection with actin microfilaments, microtubules and other intermediate filaments. This antibody labels neurons (axons) of the central and peripheral nervous system, and is a useful aid for classification of tumors with neuronal differentiation.



Merkel cell tumor (FFPE) stained with FLEX Anti-Neurofilament Protein, Code GA607, on Dako Omnis.

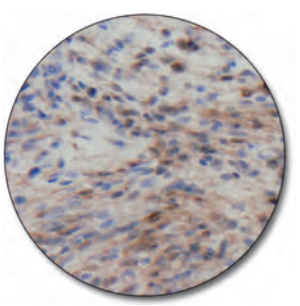
Monoclonal Mouse Anti-Human
Neuron-Specific Enolase (NSE)

Clone: BBS/NC/VI-H14
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M0873	Culture supernatant	0.2 mL/1 mL
CE	IR612	RTU★, FLEX	60 tests, 12 mL▲
CE	IS612	RTU★, FLEX	30 tests, 6 mL△

Neuron-specific enolase is one of three main groups of enolases, the other two being non-neuronal enolase and muscle-specific enolase. The antibody labels cells of neuronal and neuroendocrine origin. Although neuron-specific enolase is not an exclusive neuronal marker, it may be used for the identification of peripheral nerves. Results aid in the classification of neural and neuroendocrine tumors, such as neuroblastomas, retinoblastomas, desmoplastic malignant melanoma, and small-cell lung cancer.



Schwannoma (FFPE) stained with FLEX Anti-Neuron-Specific Enolase, Code IR612/IS612.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
Neutrophil Elastase

Clone: NP57
Isotype: IgG1, kappa

● Frozen ● Formalin

CE M0752 Culture supernatant 1 mL

Labels neutrophil precursors strongly. A minor population of monocytes is also labeled, but with a lower intensity. The antibody is a useful aid for classification of acute myeloid leukemia and extramedullary myeloid cell tumor (1).
Note: The neutrophil elastase epitope corresponding to this antibody is destroyed by heat-induced epitope retrieval methods.

Reference:
1. Pulford KAF, Erber WN, Crick JA, Olsson I, Micklem KJ, Gatter KC, et al. Use of monoclonal antibody against human neutrophil elastase in normal and leukaemic myeloid cells. J Clin Pathol 1988;41:853-60.

Monoclonal Mouse Anti-Human
Nucleophosmin

Clone: 376
Isotype: IgG1, lambda

● Formalin ● HIER

CE M7305 Culture supernatant 1 mL
CE GA652 RTU★, FLEX 60 tests, 12 mL◆
CE IR652 RTU★, FLEX 60 tests, 12 mL▲

Reacts with nucleophosmin (NPM) and its mutated counterpart NPMc. NPM is predominantly localized in the nucleus of cells in most tissues. However, NPMc is aberrantly accumulated in the cytoplasm of leukemic blasts in a large subgroup of acute myeloid leukemia (AML) cases with a normal karyotype (1-2). The antibody may be a useful aid for classification of acute myeloid leukemia (3).

References:
1. Falini B, Mecucci C, Tiacci E, Alcaly M, Rosatin R, Pasqualucci L, et al. Cytoplasmic nucleophosmin in acute myologenous leukemia with a normal karyotype. New Engl J Med 2005;352:254-66.
2. Falini B, Bolli N, Shan J, Martelli PM, Liso A, Pucciarini A, et al. Both carboxy-terminus NES motif and mutated tryptophan(s) are crucial for aberrant nuclear export of nucleophosmin leukemic mutants in NPMc+ AML. Blood 2006;107:4514-23.
3. Pasqualucci L, Liso A, Martelli MP, Bolli N, Pacini R, Tabarrinni A, et al. Mutated nucleophosmin detects clonal multilineage involvement in acute myeloid leukemia: Impact on WHO classification. Blood 2006: Epub. ahead of print.

Acute myeloid leukemia (AML) (FFPE) stained with FLEX Anti-Nucleophosmin, Code GA652, on Dako Omnis.

Monoclonal Mouse Anti-Human
Octamer-Binding Transcription Factor 3/4

Clone: N1NK
Isotype: IgG1, kappa

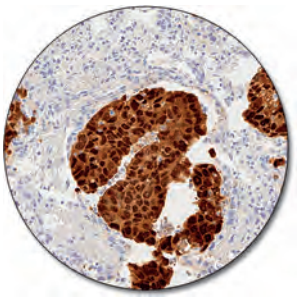
● Formalin ● HIER

CE M3649 Culture supernatant 0.2 mL/1 mL
CE IR092 RTU★, FLEX 60 tests, 12 mL▲

Octamer-binding transcription factor 3/4 (OCT3/4) is expressed in early embryonic cells and germ cells and is central to the gene regulatory network responsible for self-renewal, pluripotency, and lineage commitment in embryonic stem cells and induced pluripotent stem cells (1).

Antibodies to OCT3/4 may be a useful aid for classification of specific subtypes of germ cell tumors including seminoma, embryonal carcinoma and intratubular germ cell neoplasia of unclassified type (IGCNU) (2, 3).

References:
1. Bhartiya D, Kasiviswanathan S, Unni SK, Pethe P, Dhabalia J, Patwardhan S, et al. Newer insights into premeiotic development of germ cells in adult human testis using Oct-4 as a stem cell marker. J Histochem Cytochem 2010;58:1093-1106.
2. Cheng L. Establishing a germ cell origin for metastatic tumors using OCT4 immunohistochemistry. Cancer 2004;101:2006-10.
3. Jones TD, Ulbright TM, Eble JN, Cheng L. OCT4: a sensitive and specific biomarker for intratubular germ cell neoplasia of the testis. Clin Cancer Res 2004;10:8544-7.



Embryonal carcinoma (FFPE) stained with FLEX Anti-OCT3/4, Code IR092.

Monoclonal Mouse Anti-Human
p21$^{WAF1/Cip1}$

Clone: SX118
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE M7202 Culture supernatant 0.2 mL

The protein p21$^{WAF1/Cip1}$ inhibits the activity of several cyclin/cyclin-dependent kinase complexes and blocks cell-cycle progression (1). In tumor cells that have lost the p53 protein, or contain an altered form of p53, p21$^{WAF1/Cip1}$ levels are dramatically reduced or totally absent (2). Because p21$^{WAF1/Cip1}$ appears to mediate several of the growth-regulatory functions of p53, its expression would be predicted to reflect the functional status of p53 more precisely than p53 accumulation.

References:
1. Xiong Y, Hannon GJ, Zhang H, Casso D, Kobayashi R, Beach D. p21 is a universal inhibitor of cyclin kinases. Nature 1993;366:701-4.
2. El-Deiry WS, Tokino T, Velculescu VE, Levy DB, Parsons R, Trent JM, et al. WAF1, a potential mediator of p53 tumor suppression. Cell 1993;75:817-25.

Monoclonal Mouse Anti-Human
p27^{Kip1}

Clone: SX53G8
Isotype: IgG1, kappa

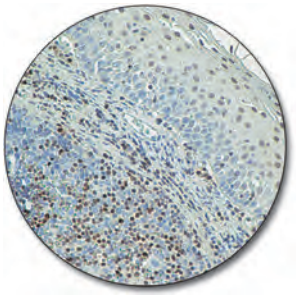
● Formalin ● HIER

CE M7203 Culture supernatant 1 mL

p27^{Kip1}, a cyclin-dependent kinase (cdk) inhibitor, regulates progression from G_1 into S phase of the cell cycle by binding and inhibiting cyclin/cdks (1, 2). p27^{Kip1} exhibits structural and functional similarities with p21$^{WAF1/Cip1}$ (1).

References:
1. Toyoshima H, Hunter T. p27, a novel inhibitor of G1 cyclin-cdk protein kinase activity, is related to p21. Cell 1994;78:67-74.
2. Polyak K, Lee M-H, Erdjument-Bromage H, Koff A, Roberts JM, Tempst P, et al. Cloning of p27^{Kip1}, a cyclin-dependent kinase inhibitor and a potential mediator of extracellular antimitogenic signals. Cell 1994;78:59-66.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections



Tonsil (FFPE) stained with Anti-p27^{Kip1}, Code M7203.

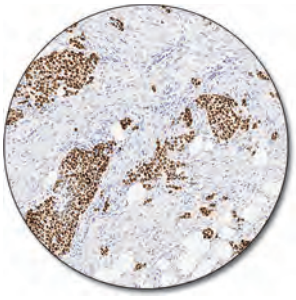
Monoclonal Mouse Anti-Human
p53 Protein

Clone: DO-7
Isotype: IgG2b, kappa

● Frozen ● Formalin ● HIER

CE	M7001 Culture supernatant	0.2 mL/1 mL
CE	GA616 RTU★, FLEX	60 tests, 12 mL◆
CE	IR616 RTU★, FLEX	60 tests, 12 mL▲
CE	IS616 RTU★, FLEX	30 tests, 6 mL△

Reacts with the wild type and mutant type of the p53 protein. The antibody is a useful aid for classification of tumors of all cell lineages.



Invasive transitional cell carcinoma (FFPE) stained with FLEX Anti-p53, Code GA616, on Dako Omnis.

Monoclonal Rabbit Anti-Human
p53 Protein

Clone: 318-6-11

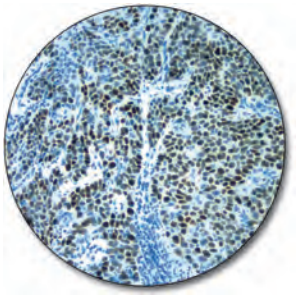
● Frozen ● Formalin ● HIER

CE	M3629 Culture supernatant	0.2 mL/1 mL

This monoclonal **rabbit** antibody is useful for the identification of p53 protein. The *p53* tumor suppressor gene is activated by DNA damage, abnormal growth signals, and other intrinsic and extrinsic stresses. In normal cells, the expression level of p53 protein is generally below the detection level of immunohistochemical methods. Mutations of the *p53* gene are among the most common molecular changes identified in human cancers. These mutations can result in accumulation and overexpression of mutant p53 protein. Results aid in the classification of a range of human tumor types from organs such as bladder, colorectum, esophagus, lung, head and neck, ovary, pancreas, prostate, skin, stomach, and many others.

References:

1. Harris SL, Levine AJ. The p53 pathway: positive and negative feedback loops [review]. Oncogene 2005;24:2899-908.
2. Steele RJ, Lane DP. P53 in cancer: a paradigm for modern management of cancer [review]. Surgeon 2005;3:197-05.



Squamous cell carcinoma (FFPE) stained with Anti-p53 Protein, Code M3629.

Dako FLEX RTU Antibodies for Reproductive System Testing

See our panel of FLEX antibodies at page 70

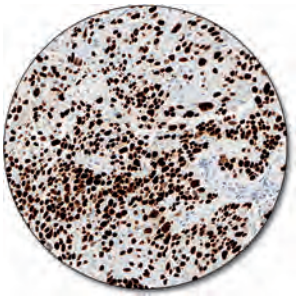
Monoclonal Mouse Anti-Human
p63 Protein

Clone: DAK-p63
Isotype: IgG2a, kappa

● Formalin ● HIER

CE	M7317 Culture supernatant	0.2 mL/1 mL
CE	IR662 RTU★, FLEX	60 tests, 12 mL▲

p63 protein is a member of the p53 tumor suppressor family which also includes the p73 protein. These proteins act as transcription factors that regulate the progression of the cell through its cell cycle and cell death (apoptosis) in response to environmental stimuli, such as DNA damage and hypoxia. The p63 protein is expressed in the nucleus of basal cells in many types of epithelium. Antibodies to p63 protein may be useful as an aid in the differentiation between benign prostate lesions and prostate adenocarcinoma, between breast carcinoma in situ and breast carcinoma, between squamous cell carcinoma and adenocarcinoma of the lung and furthermore to differentiate uterine cervical squamous carcinoma from cervical adenocarcinoma.
The new clone DAK-p63 is raised against a synthetic peptide derived from the core DNA-binding domain of human p63 protein thus reacting with TAp63 and △Np63 isoforms of p63.



Squamous cell lung carcinoma (FFPE) stained with FLEX Anti-p63 Protein, Code IR662.

P501S

See: Prostein

P504S

See: AMACR

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

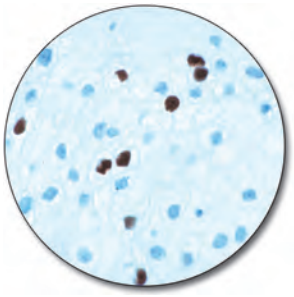
Monoclonal Mouse Anti-Human
Papillomavirus (HPV)

Clone: K1H8
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

RUO M3528 Culture supernatant 1 mL

Alkaline-disrupted HPV, type 1, has been used for the immunization. The antibody reacts with a non-conformational, internal, linear epitope of a major capsid protein of HPV-1. This epitope is broadly expressed among the different HPV subtypes 6, 11, 16, 18, 31, 33, 42, 51, 52, 56 and 58.



Human condyloma (FFPE) stained with Anti-HPV, Code M3528.

Polyclonal Rabbit Anti-
PGP 9.5

● Formalin ● HIER

CE Z5116 Ig fraction 1 mL

Protein gene product 9.5 (PGP 9.5) isolated from bovine brain has been used for immunization. PGP 9.5 is a pan-neuronal marker. The antibody is a useful aid for the classification of neuroendocrine tumors.

Phagocytic Glycoprotein-1

See: CD44, Phagocytic Glycoprotein-1

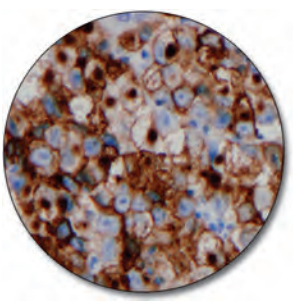
Monoclonal Mouse Anti-Human
Placental Alkaline Phosphatase

Clone: 8A9
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M7191 Culture supernatant	0.2 mL/1 mL
CE	IR779 RTU★, FLEX	60 tests, 12 mL▲
CE	IS779 RTU★, FLEX	30 tests, 6 mL△

The antibody is a useful aid for classification of many different types of germ cell neoplasia and carcinomas of the lung, stomach, pancreas, breast and ovary.



Seminoma (FFPE) stained with FLEX Anti-Placental Alkaline Phosphatase, Code IR779/IS779.

Monoclonal Mouse Anti-Human
Plasma Cell

Clone: VS38c
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE M7077 Culture supernatant 1 mL

Recognizes an intracellular protein of 63 kDa identical with the rough endoplasmic reticulum-associated protein p63. The antibody labels plasma cells strongly, but frequently also labels melanocytic cells and a number of epithelial cells, e.g. in mucous glands and tonsils, and secretory epithelia in breast, thyroid and pancreas, both benign and malignant.
The antibody is useful for classification of myeloma/plasmacytoma and immunocytoma as well as plasmacytic B-cell neoplasms.

References:
1. Turley H, Jones M, Erber W, Mayne K, de Waele M, Gatter K. VS38: a new antibody for detecting plasma cell differentiation in routine sections. J Clin Pathol 1994;47:418-22.
2. Schweizer A, Rohrer J, Slot JW, Geuze HJ, Kornfeld S. Reassessment of the subcellular localization of p63. J Cell Sci 1995;108:2477-85.
3. Banham AH, Turley H, Pulford K, Gatter K, Mason DY. The plasma cell associated antigen detectable by antibody VS38 is the p63 rough endoplasmic reticulum protein. J Clin Pathol 1997;50:485-9.
4. Shanks JH, Bannerjee SS. VS38 immunostaining in melanocytic lesions. J Clin Pathol 1996;49:205-7.

Platelet Glycoprotein

See: CD61

Monoclonal Mouse Anti-
Pneumocystis Jiroveci

Clone: 3F6
Isotype: IgM, kappa

● Formalin ● HIER

CE	M0778 Culture supernatant	1 mL
CE	IR635 RTU★, FLEX	60 tests, 12 mL▲
CE	IS635 RTU★, FLEX	30 tests, 6 mL△

Reacts with an antigenic epitope highly specific for *P. jiroveci* (*P. carinii*) fungus. The antibody is well-suited for detection of *P. jiroveci* in formalin-fixed, paraffin-embedded lung tissue.

Monoclonal Mouse Anti-Human
Podoplanin

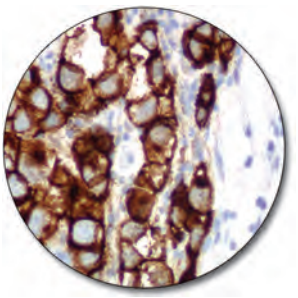
Clone: D2-40
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3619 Culture supernatant	0.2 mL/1 mL
CE	IR072 RTU★, FLEX	60 tests, 12 mL▲
CE	IS072 RTU★, FLEX	30 tests, 6 mL△

Identifies the ~38 kDa O-linked transmembrane sialoglycoprotein podoplanin, which is expressed in the endothelium of lymphatic capillaries, but not in the blood vasculature (1). Besides the expression in lymphatic endothelium, podoplanin is also found in a variety of other tissues, including mesothelial cells, reticular cells, follicular dendritic cells, ovarian and testicular germ cells (2). Results aid in the classification of lymphatic invasion of primary tumors.

References:
1. Breiteneder-Geleff S, Soleiman A, Kowalski H, Horvat R, Amann G, Kriehuber E, et al. Angiosarcomas express mixed endothelial phenotypes of blood and lymphatic capillaries: podoplanin as a specific marker for lymphatic endothelium. Am J Pathol 1999;154:385-94.
2. Kalof AN and Cooper K. D2-40 Immunohistochemistry. Adv Anat Pathol 2009;16: 62-4.



Seminoma (FFPE) stained with FLEX Podoplanin, Code IR072/

▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Rabbit Anti-Human
Postmeiotic Segregation Increased 2

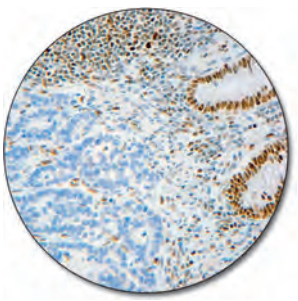
Clone: EP51

● Formalin ● HIER

CE	M3647 Affinity isolated	0.2 mL/1 mL
CE	IR087 RTU★, FLEX	60 tests, 12 mL▲

Postmeiotic segregation increased 2 (PMS2) is part of the DNA mismatch repair (MMR) pathway, which is utilized by normal proliferating cells to repair mutations that may occur during DNA replication.
Antibodies to PMS2 may be a useful aid for classification of tumors of the gastrointestinal tract, including HNPCC and associated extracolonic cancers.
References:

1. Peltomäki P. Role of DNA mismatch repair defects in the pathogenesis of human cancer. J Clin Oncol 2003;21:1174-9.
2. Lynch H. Smyrk, T. Hereditary nonpolyposis colorectal cancer (Lynch syndrome) An updated Review. Cancer 1996;78:1149-67.



Colon adenocarcinoma (FFPE) with loss of PMS2 protein stained with FLEX Anti-PMS2, Code IR087.

Dako FLEX RTU Antibodies for Respiratory System Testing

See our panel of FLEX antibodies at page 71

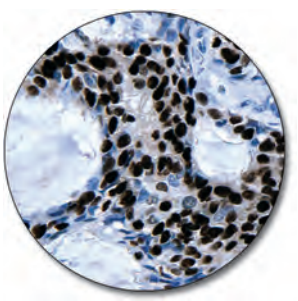
Monoclonal Mouse Anti-Human
Progesterone Receptor

Clone: PgR 636
Isotype: IgG1, kappa

● Formalin ● HIER

CE	M3569 Culture supernatant	0.2 mL/1 mL
CE	IR068 RTU★, FLEX	60 tests, 12mL▲
CE	IS068 RTU★, FLEX	30 tests, 6 mL△

Progesterone receptor (PR) is a steroid hormone receptor that plays an important role in breast cancer. The absence of PR and estrogen receptor (ER) predicts early recurrence and poor survival of breast cancer patients. The antibody to PR is useful for measuring the relative level of expression of progesterone receptor in breast cancer tissue. This antibody is indicated for assessment of progestrerone receptor status in breast cancer.



Breast ductal carcinoma (FFPE) stained with FLEX Anti-Progesterone Receptor.

Monoclonal Mouse Anti-Human
Progesterone Receptor

Clone: PgR 1294
Isotype: IgG1, kappa

● Formalin

CE	M3568 Culture supernatant	1 mL

Human progesterone receptor belongs to a family of ligand-dependent nuclear receptors which function as transcription factors, mediating the gowth of target tissues. The antibody recognizes the A and B forms of the receptor.

Polyclonal Rabbit Anti-Human
Prolactin

● Frozen ● Formalin

CE	A0569 Whole serum	1 mL

Reacts with prolactin-producing cells in the normal pituitary and is a useful aid for classification of pituitary adenomas.

Monoclonal Mouse Anti-
Proliferating Cell Nuclear Antigen

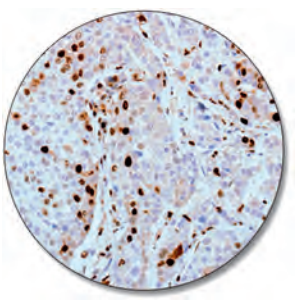
Clone: PC10
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

CE	M0879 Culture supernatant	1 mL

The antibody reacts with a simple, linear epitope in proliferating cell nuclear antigen (PCNA). The PCNA is expressed by proliferating cells and reaches its maximum synthesis during the S-phase of the cell cycle.
References:

1. Roos G, Landberg G, Huff JP, Houghten R, Takasaki Y, Tan EM. Analysis of the epitopes of proliferating cell nuclear antigen recognized by monoclonal antibodies. Lab Invest 1993;68:204-10.
2. Bromley M, Rew D, Becciolini A, Balzi M, Chadwick C, Hewitt D, et al. A comparison of proliferation markers (BrdUrd, Ki-67, PCNA) determined at each cell position in the crypts of normal human colonic mucosa. Eur J Histochem 1996;40:89-100.
3. Yu CC-W, Filipe M. Update on proliferation-associated antibodies applicable to formalin-fixed paraffin-embedded tissue and their application. Histochem J 1993;25:843-53.



Breast carcinoma (FFPE) stained with Anti-Proliferating Cell Nuclear Antigen.

▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

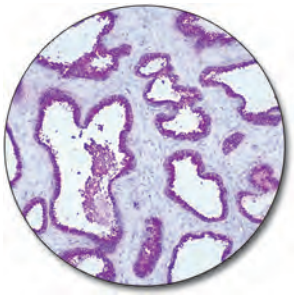
Monoclonal Mouse Anti-Human
Prostate-Specific Antigen (PSA)

Clone: ER-PR8
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE M0750 Culture supernatant 0.2 mL

Reacts with prostate secretory and ductal epithelium in normal and neoplastic tissue. The antibody is a useful aid for classification of neoplasms of prostatic origin.



Prostate (FFPE) stained with Anti-PSA, Code M0750.

Dako FLEX RTU Antibodies for Prostate Testing

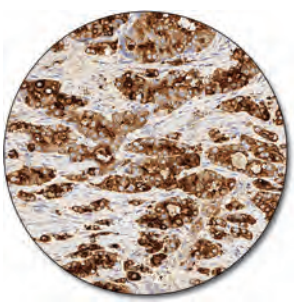
See our panel of FLEX antibodies at page 70

Polyclonal Rabbit Anti-Human
Prostate-Specific Antigen (PSA)

● Formalin

CE	A0562	Ig fraction	1 mL
CE	GA514	RTU★, FLEX	60 tests, 12 mL◆
CE	IR514	RTU★, FLEX	60 tests, 12 mL▲
CE	IS514	RTU★, FLEX	30 tests, 6 mL△

Prostate-specific antigen (PSA) is a 33 kDa protein belonging to the kallikrein family of proteases. It is primarily produced by the prostatic epithelium and the epithelial lining of the periurethal glands. PSA is strongly expressed in both normal and neoplastic prostatic tissue. This antibody is a useful aid for the identification of human prostate-specific antigen.



Prostate adenocarcinoma (FFPE) stained with FLEX Anti-Prostate Specific Antigen, Code GA514, on Dako Omnis.

Monoclonal Mouse Anti-Human
Prostate-Specific Membrane Antigen (PSMA)

Clone: 3E6
Isotype: IgG1, kappa

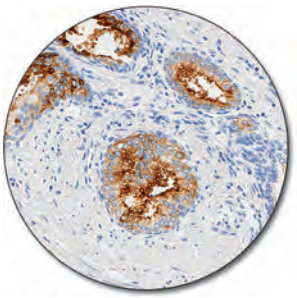
● Formalin ● HIER

CE	M3620	Culture supernatant	0.2 mL/1 mL
CE	IR089	RTU★, FLEX	60 tests, 12 mL▲

Prostate-specific membrane antigen (PSMA) is expressed in normal and malignant prostatic epithelium and in a subset of non-prostatic tissues. In prostate cancer, PSMA expression has been shown to correlate with disease progression, with highest levels expressed in hormone-refractory and metastatic disease. The cellular localization of PSMA is cytoplasmic and/or membranous. This antibody labels PSMA-expressing cells in normal and neoplastic tissues and is a useful aid for classification of prostate adenocarcinomas.

Reference:

1. Mannweiler S, Amersdorfer P, Trajanoski S, Terrett J, King D, Mehes G. Heterogeneity of prostate-specific membrane antigen (PSMA) expression in prostate carcinoma with distant metastasis. Pathol Oncol Res 2009;15:167-72.



Prostatic intraepithelial neoplasia (PIN) (FFPE) stained with FLEX Anti-PSMA, Code IR089.

Monoclonal Mouse Anti-Human
Prostatic Acid Phosphatase

Clone: PASE/4LJ
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE M0792 Culture supernatant 1 mL

Reacts with the glandular epithelium of prostate. Results aid in the classification of prostate carcinoma. Occasionally, carcinoid tumors may be labeled.

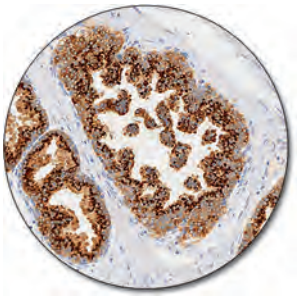
Monoclonal Mouse Anti-Human
Prostein

Clone: 10E3
Isotype: IgG2a, kappa

● Formalin ● HIER

CE	M3615	Culture supernatant	0.2 mL/1 mL
CE	IR088	RTU★, FLEX	60 tests, 12 mL▲

Prostein is a 553-amino acid protein, also known as P501S. Prostein protein is a type IIIa plasma membrane protein which has been shown to be exclusively expressed in cells of normal and malignant prostate by Northern blot, cDNA microarray, real-time PCR and immunohistochemistry. Prostein is localized to the Golgi complex in the cytoplasm of cells and is expressed by both benign and neoplastic prostate tissue, whereas it has not been detected in any other normal or malignant tissue examined.
This antibody is a useful aid for classification of prostate adenocarcinomas.



Prostatic intraepithelial neoplasia (PIN) (FPPE) stained with FLEX Anti-Prostein, Code IR088.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
PTEN

Clone: 6H2.1
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

CE	M3627	Culture supernatant	0.2 mL

The PTEN protein is a lipid phosphatase with tumor-suppressing abilities. Results aid in the classification of a variety of malignancies, including breast (1), prostate (2) and endometrial cancer.

References:

1. Perren A, Weng LP, Boag AH, Ziebold U, Thakore K, Dahia PL, et al. Immunohistochemical evidence of loss of PTEN expression in primary ductal adenocarcinomas of the breast. Am J Pathol 1999;155:1253-60.
2. McMenamin ME, Soung P, Perera S, Kaplan I, Loda M, Sellers WR. Loss of PTEN expression in paraffin-embedded primary prostate cancer correlates with high Gleason score and advanced stage. Cancer Res 1999;59:4291-6.

Rat Ki-67 Antigen

See: Ki-67 Antigen

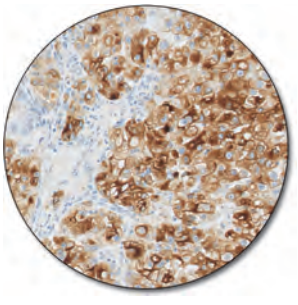
Monoclonal Mouse Anti-Human
Renal Cell Carcinoma Marker

Clone: SPM314
Isotype: IgG2b, kappa

● Frozen ● Formalin ● HIER

CE	M3632	Culture supernatant	1 mL
CE	GA075	RTU★, FLEX **NEW**	60 tests, 12 mL◆
CE	IR075	RTU★, FLEX	60 tests, 12 mL▲
CE	IS075	RTU★, FLEX	30 tests, 6 mL△

Reacts with renal cell carcinoma marker (gp200), a surface membrane glycoprotein. The antigen is expressed on the brush border of proximal renal tubules and on the luminal surface of Bowman's capsule, as well as in parathyroid parenchymal cells and colloid of thyroid follicles. The antibody is a useful aid for classification of primary and metastatic renal cell carcinomas.



Renal clear cell carcinoma (FFPE) stained with FLEX Anti-Renal Cell Carcinoma Marker, Code GA075, on Dako Omnis.

Monoclonal Mouse Anti-Human
Ribosomal Protein S6-pS240 Phosphorylation Site Specific

Clone: DAK-S6-240
Isotype: IgG1

● Formalin ● HIER

RUO	M7300	Culture supernatant	0.2 mL

Reacts with human ribosomal protein S6 phosphorylated at serine residue 240 (pS240). Phosphorylation of ribosomal protein S6 correlates with an increase in translation of mRNAs that encode for proteins involved in cell cycle progression and proteins controlling mammalian cell growth and proliferation.

Polyclonal Rabbit Anti-
S100

● Formalin ● HIER

CE	Z0311	Ig fraction	0.2 mL/1 mL
CE	GA504	RTU★, FLEX	60 tests, 12 mL◆
CE	IR504	RTU★, FLEX	60 tests, 12 mL▲
CE	IS504	RTU★, FLEX	30 tests, 6 mL△

Reacts strongly with human S100B, and weakly or very weakly with S100A1 and S100A6, respectively. S100 from ox brain has been used for the immunization. Z0311 labels glial cells in the brain and ependymal cells. Moreover, Schwann's cells of the peripheral nervous system are positive. Results aid in the classification of tumors in central and peripheral nervous system, such as schwannomas, ependydomas as well as in different grades of astrogliomas, also including glioblastomas. A large proportion of cells in human tumors originating from different salivary glands are labeled by anti-S100. The antibody is also a useful aid for classification of malignant melanocytic tumors of the skin and metastases of human malignant melanomas.

Breast carcinoma (FFPE) stained with FLEX Anti-S100, Code GA504, on Dako Omnis.

Polyclonal Rabbit Anti-Human
S100A4

● Frozen ● Formalin ● HIER

RUO	A5114	Ig fraction	1 mL

Recombinant human S100A4 has been used for immunization.

Monoclonal Mouse Anti-Human
Serotonin

Clone: 5HT-H209
Isotype: IgG1, kappa

● Frozen ● Formalin

CE	M0758	Culture supernatant	1 mL

Reacts with serotonin in a broad range of normal, hyperplastic and neoplastic tissues. Serotonin is also called 5-hydroxytryptamine. The antibody is a useful aid for classification of primary and metastatic carcinoid tumors expressing serotonin.

Polyclonal Rabbit Anti-Human
Somatostatin

● Frozen ● Formalin

CE	A0566	Whole serum	1 mL

Somatostatin is one of seven known polypeptide hormones produced in the pancreas. It functions as an inhibitory hormone of the neuroendocrine system and is secreted by D cells of the islets of Langerhans, the fundus and antrum of the stomach and in the upper small intestine. The antibody labels somatostatin-containing cells and is a useful aid for classification of pancreatic tumors and islet cell hyperplasia.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
Survivin

Clone: 12C4
Isotype: IgG2a, kappa

● Formalin ● HIER

CE M3624 Culture supernatant 0.2 mL

Survivin is a member of the inhibitor of apoptosis (IAP) gene family which counteracts apoptosis by inhibiting the activity of initiator and effector caspases. Survivin associates with the microtubules in the mitotic spindle and antagonizes mitochondrial-dependent apoptosis. In addition to cell death regulation, survivin has also been shown to be important in cell division and its expression is controlled at the transcriptional level in a cell cycle dependent manner. Results aid in the classification of a wide variety of neoplasms including tumors of the lung, breast, colon, stomach, esophagus, pancreas, liver, uterus, ovaries, Hodgkin's disease, non-Hodgkin's lymphoma, leukemias, neuroblastoma, phaeochromocytoma, soft-tissue sarcoma, gliomas and melanomas. The cellular localization of survivin is nuclear and/or cytoplasmic.

Monoclonal Mouse Anti-Human
Synaptophysin

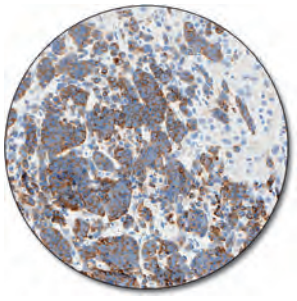
Clone: DAK-SYNAP
Isotype: IgG1, kappa

● Formalin ● HIER

CE M7315 Culture supernatant 0.2 mL/1 mL
CE IR660 RTU★, FLEX 60 tests, 12 mL▲

Synaptophysin is a 38 kDa membrane glycoprotein expressed in neuroendocrine cells and neurons involved in transmission via synaptic vehicles.
Results aid in the classification of neuroendocrine neoplasm, such as neuroendocrine lung tumors (e.g. carcinoid, atypic carcinoid, SCLC, LCNEC and non-small cell lung cancer), neuroendocrine tumors of the gastroentero-pancreatic tract, e.g. neuroendocrine tumors (NETs), neuroendocrine carcinoma (NECs) and other epithelial neuroendocrine neoplasms such as pituitary adenomas, medullary thyroid carcinoma and parathyroid adenomas.
Clone DAK-SYNAP is raised against a recombinant immunogen corresponding to the C-terminal cytoplasmic domain of human synaptophysin.

References:
1. Wiedenmann B, Franke WW. Identification and localization of synaptophysin, an integral membrane glycoprotein of Mr 38,000 characteristic of presynaptic vesicles. Cell 1985;40:1017-28.
2. Kwon SE, Chapman ER. Synaptophysin regulates the kinetics of synaptic vesicle endocytosis in central neurons. Neuron 2011:70:847-85.



Small cell lung cancer (FFPE) stained with FLEX Anti-Synaptophysin, Code IR660.

Dako FLEX RTU Antibodies for Nervous System Testing

See our panel of FLEX antibodies at page 69

Polyclonal Rabbit Anti-Human
Tau

● Frozen ● Formalin

CE A0024 Ig fraction 1 mL

Recombinant human tau protein expressed in *E. coli* has been used for immunization. The antibody reacts with phosphorylated and non-phosphorylated forms of the tau protein and is useful for the labeling of the tau protein in Alzheimer neurofibrillary tangles.

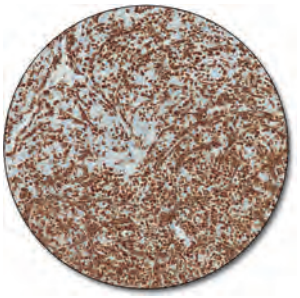
Monoclonal Rabbit Anti-Human
Terminal Deoxynucleotidyl Transferase (TdT)

Clone: EP266

● Formalin ● HIER

CE M3651 Culture supernatant 1 mL
CE IR093 RTU★, FLEX 60 tests, 12 mL▲

Reacts with the nuclei of normal B and T-lymphocyte precursors and their equivalents. Antibodies to terminal deoxynucleotidyl transferase (TdT) may be a useful aid for classification of precursor B and T-cell acute lymphoblastic leukemia (ALL) and thymoma.



Thymoma (FFPE) stained with FLEX Anti-TdT, Clone EP266, Code IR093.

Monoclonal Mouse Anti-
Thrombomodulin

Clone: 1009
Isotype: IgG1, kappa

● Frozen ● Formalin

CE M0617 Culture supernatant 1 mL

Thrombomodulin (TM) is an endothelial cell transmembrane glycoprotein. The normal distribution of TM includes the lining of blood and lymphatic vessels, mesothelial cells and some macrophages of the lung, meningeal lining cells, synovial cells, syncytiotrophoblasts, megakaryocytes and platelets. Results aid in the classification of mesothelioma (1).

Reference:
1. Collins CL, et al. Thrombomodulin expression in malignant pleural mesothelioma and pulmonary adenocarcinoma. Am J Pathol 1992;141:827.

Monoclonal Mouse Anti-Human
Thymidylate Synthase

Clone: TS106
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE M3614 Culture supernatant 1 mL

Thymidylate synthase (TS) is a key enzyme in the synthesis of DNA. TS, along with methyl donor 5,10-methylenetetrahydrofolate, catalyzes the methylation of deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP) to generate the thymine nucleotides necessary for DNA biosynthesis. TS is also a target for fluorinated pyrimidine drugs such as 5-fluorouracil (5-FU). The active metabolite of 5-FU, FdUMP, competes with dUMP for the active binding site on the TS enzyme. FdUMP forms a ternary complex with TS and 5,10-methylenetetrahydrofolate, thereby inhibiting the enzyme.

Monoclonal Mouse Anti-Human
Thyroglobulin

Clone: DAK-Tg6
Isotype: IgG1, kappa

● Frozen ● Formalin

CE M0781 Culture supernatant 1 mL

Reacts with cells in thyroid tissue. The antibody is a useful aid for classification of thyroid carcinomas.

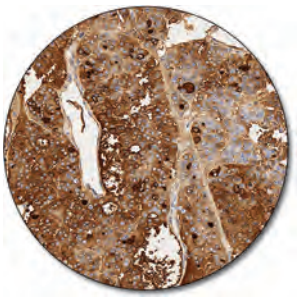
▲ Packaged in vials for use with Autostainer Link instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Polyclonal Rabbit Anti-Human
Thyroglobulin

● Frozen ● Formalin

CE	A0251	Ig fraction	2 mL
CE	GA509	RTU★, FLEX	60 tests, 12 mL◆
CE	IR509	RTU★, FLEX	60 tests, 12 mL▲
CE	IS509	RTU★, FLEX	30 tests, 6 mL△

Thyroglobulin is the precursor of thyroid hormones. It is synthesized by thyrocytes and transported to the apical surface where it is secreted into the lumen of thyroid follicles and stored as the major component of colloid. The antibody is useful for the detection of thyroglobulin in thyroid tissue and is a useful aid for classification of well-differentiated thyroid carcinomas.



Thyroid follicular carcinoma (FFPE) stained with FLEX Anti-Thyroglobulin, Code GA509, on Dako Omnis.

Monoclonal Mouse Anti-Human
Thyroid Peroxidase (TPO)

Clone: MoAb47
Isotype: IgG1, kappa

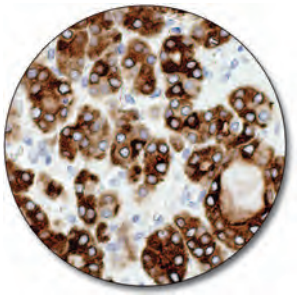
● Frozen ● Formalin ● HIER

CE	M7257	Culture supernatant	0.2 mL

Thyroid peroxidase (TPO) is present as a dimer on the apical surface of thyroid folliular cells, and it is the primary enzyme involved in thyroid hormone synthesis. A reduction of TPO-positive cells has been found in malignant nodular thyroid tissue, and the antibody is a useful aid for classification of solitary cold thyroid nodules in fine needle aspiration cytology samples (1).

Reference:

1. Christensen L, Blichert-Toft M, Brandt M, Lange M, Sneppen SB, Ravnsbæk J. Thyroperoxidase TPO immunostaining of the solitary cold thyroid nodule. Clin Endocrinol 2000;53:161-9.



Thyroid adenoma (benign) (FFPE) stained with Anti-TPO, Code M7257.

Monoclonal Mouse Anti-Human
Thyroid-Stimulating Hormone (TSH)

Clone: 0042
Isotype: IgG1, kappa

● Formalin

CE	M3503	Culture supernatant	1 mL

Reacts with the β-subunit of thyroid-stimulating hormone. By immunoradiometric assay, no detectable cross-reactivity was found against hGH, prolactin, hCG or bovine TSH. The antibody labels thyrotrophic cells of the pituitary. Results aid in the classification of pituitary adenomas.

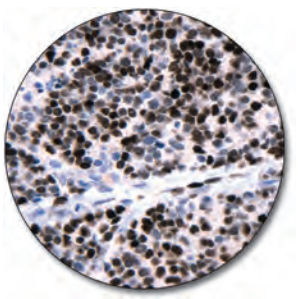
Monoclonal Mouse Anti-
Thyroid Transcription Factor (TTF-1)

Clone: 8G7G3/1
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M3575	Culture supernatant	0.2 mL/1 mL
CE	IR056	RTU★, FLEX	60 tests, 12 mL▲
CE	IS056	RTU★, FLEX	30 tests, 6 mL△

Identifies the 40 kDa TTF-1 band in nuclear extracts or whole cell lysates of TTF-1-positive cell lines of rat, mouse and man. TTF-1 is selectively expressed in lung and thyroid, and the antibody may aid in the classification of tumors of the lung and thyroid.



Lung smal cell carcinoma (FFPE) stained with FLEX Anti-TTF-1, Code IR056/IS056.

Monoclonal Mouse Anti-Human
Tissue Inhibitor of Metalloproteinases 1

Clone: VT7
Isotype: IgG1, kappa

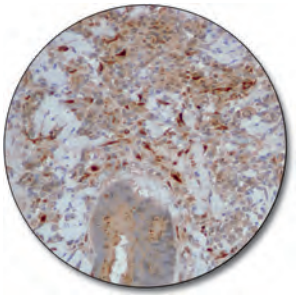
● Formalin ● HIER

CE	M7293	Culture supernatant	0.2 mL

Reacts with tissue inhibitor of metalloproteinases 1 (TIMP-1). TIMP-1 is expressed in a proportion of stromal myofibroblast-like cells adjacent to invading cancer cells of colon adenocarcinomas. Results aid in the classification of adenocarcinomas and colon adenomas (1). TIMP-1 is also expressed in neuroendocrine cells (2). TIMP-1 plays a pivotal role in extracellular matrix remodeling, and may affect malignant cell transformation, cell proliferation and apoptosis (3).

References:

1. Sørensen IV, Winther H, Foged NT, Fenger C, Brünner N. Tissue inhibitor of metalloproteinases 1 (TIMP-1) as an immunohistochemical marker for colorectal cancer. Eur J Cancer Supplements 2005;3:196.
2. Sørensen IV, Fenger C, Winther H, Foged NT, Lademann U, Brünner N, et al. Characterization of anti-TIMP-1 monoclonal antibodies for immunohistochemical localization in formalin fixed paraffin embedded tissue. J Histochem Cytochem 2006;In press.
3. Fassina G, Ferrari N, Brigati C, Benelli R, Santi L, Noonan DM, et al. Tissue inhibitors of metalloproteases: regulation and biological activities. Clin Exp Metastasis 2000;18:111-20.



Colon adenocarcinoma (FFPE) stained with Anti-TIMP-1, Code M7293.

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
Topoisomerase IIα

Clone: Ki-S1
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

RUO M7186 Purified 1 mL

The topoisomerase II enzymes control DNA topology by cleaving and rejoining DNA strands and passing other DNA strands through the transient gaps. The topoisomerase IIα isoform is a 170 kDa nuclear protein that is only expressed in proliferating cells.

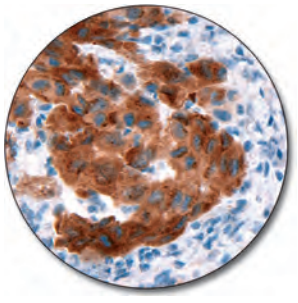
Monoclonal Mouse Anti-Human
Tyrosinase

Clone: T311
Isotype: IgG2a, kappa

● Formalin ● HIER

CE M3623 Culture supernatant 0.2 mL
CE IR061 RTU★, FLEX 60 tests, 12 mL▲
CE IS061 RTU★, FLEX 30 tests, 6 mL△

Tyrosinase is a copper-glycoenzyme involved in the production of melanin pigments, including both eumelanin and pheomelanin. As a marker of melanocytic lineage, tyrosinase is localized to melanocytes which can be found on the dermal/epidermal junction of normal skin. It is not detected in other normal cells. Results aid in the classification of primary and metastatic malignant melanomas. The cellular localization of tyrosinase is cytoplasmic and/or perinuclear.



Melanoma (FFPE) stained with FLEX Anti-Tyrosinase, Code IR061/IS061.

Polyclonal Rabbit Anti-
Ubiquitin

● Formalin

CE Z0458 Ig fraction 1 mL

Ubiquitin, isolated from cow erythrocytes and coupled to chicken gammaglobulin, has been used for immunization. The antibody cross-reacts strongly with human ubiquitin.

Monoclonal Mouse Anti-Human
uPAR

Clone: R4
Isotype: IgG1, kappa

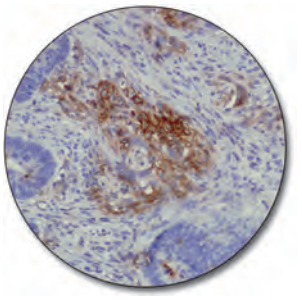
● Frozen ● Formalin ● HIER

CE M7294 Culture supernatant 0.2 mL

Reacts with urokinase-type plasminogen activator receptor (uPAR), also designated CD87. uPAR is part of the plasminogen activator system, which is involved in both early phases of carcinogenesis as well as cancer invasion and metastasis (1, 2). In normal tissue, the antibody labels a subpopulation of macrophages and neutrophils in tonsil and breast tissue as well as in the lamina propria of the intestine.The antibody labels a subpopulation of tumor-associated stromal macrophages and is a useful aid for classification of invasive colon and breast carcinomas as well neoplastic glands of colon adenocarcinomas.

References:

1. Duffy MJ. The urokinase plasminogen activator system: role in malignancy [review]. Curr Pharm Des 2004;10:39-49.
2. Andreasen PA, Egelund R, Petersen HH. The plasminogen activation system in tumor growth, invasion, and metastasis [review]. Cell Mol Life Sci 2000;57:25-40.



Colon carcinoma (FFPE) stained with Anti-uPAR, Code M7294.

Monoclonal Mouse Anti-Human
Vascular Endothelial Growth Factor (VEGF)

Clone: VG1
Isotype: IgG1, kappa

● Formalin ● HIER

RUO M7273 Culture supernatant 0.2 mL

Vascular endothelial growth factor (VEGF) is a key regulator of physiological angiogenesis during embryogenesis, skeletal growth and reproductive functions. Of the six different isoforms of VEGF, the antibody labels the VEGF-121, VEGF-165, and VEGF-189 isoforms.

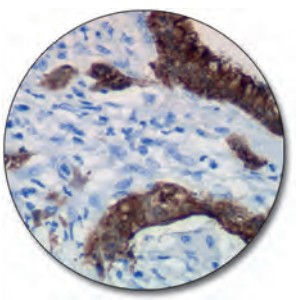
Monoclonal Mouse Anti-
Villin

Clone: 1D2 C3
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE M3637 Culture supernatant 1 mL
CE IR076 RTU★, FLEX 60 tests, 12 mL▲
CE IS076 RTU★, FLEX 30 tests, 6 mL△

Villin is a 95 kDa calcium-regulated, actin-binding protein that plays a role iin regulating actin filament assembly. It is a major constituent in the microvilli, which compose the brush border of epithelial cells forming absorptive surfaces of the intestinal and renal proximal tubular epithelia. In normal human tissue, villin is expressed by a limited number of simple epithelia of the gastrointestinal and urogenital tract. Antibodies to villin are a useful aid for classification of primary and metastatic colorectal carcinomas.



Colon adenocarcinoma (FFPE) stained with FLEX Anti-Villin, Code IS076/IS076.

Dako FLEX RTU Antibodies for Gastrointestinal Tract Testing

See our panel of FLEX antibodies at page 66

▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-
Vimentin

Clone: V9
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0725	Culture supernatant	0.2 mL/1 mL
CE	GA630	RTU★, FLEX	60 tests, 12 mL◆
CE	IR630	RTU★, FLEX	60 tests, 12 mL▲
CE	IS630	RTU★, FLEX	30 tests, 6 mL△

Vimentin is a 57 kDa intermediate filament protein which forms part of the cytoskeleton of vertebrate cells and is characteristically found in cells of mesenchymal origin. The coexpression of intermediate filaments, particularly vimentin and cytokeratin, has been demonstrated in a variety of normal cells/tissues and in neoplastic lesions, necessitating the use of antibodies against other types of intermediate filaments. The antibody is a useful aid for classification of neoplastic tissues of mesenchymal origin.

Bladder wall (FFPE) stained with FLEX Anti-Vimentin, Code GA630, on Dako Omnis.

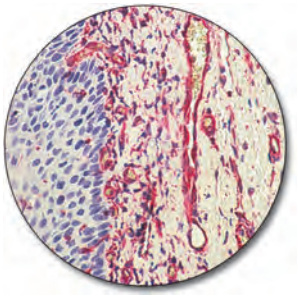
Monoclonal Mouse Anti-
Vimentin

Clone: Vim 3B4
Isotype: IgG2a, kappa

● Frozen ● Formalin ● Enzyme/HIER

CE	M7020	Purified	1 mL

Reacts strongly with human vimentin and labels cells of mesenchymal origin. This antibody is particularly well-suited for use on formalin-fixed, paraffin-embedded tissue sections. The antibody is a useful aid for classification of tumors of mesenchymal origin.



Tonsil (FFPE) stained with Anti-Vimentin, Code M7020.

Monoclonal Mouse Anti-Human
Von Willebrand Factor

Clone: F8/86
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

CE	M0616	Culture supernatant	1 mL

Reacts with von Willebrand factor present in endothelial cells and in the cytoplasm of megakaryocytes. The antibody is a useful aid for classification of tumors derived from megakaryocytes. The former designation for von Willebrand factor was Factor VIII-related antigen.

Polyclonal Rabbit Anti-Human
Von Willebrand Factor

● Formalin ● Enzyme/HIER

CE	A0082	Ig fraction	0.2 mL/2 mL
CE	GA527	RTU★, FLEX	60 tests, 12 mL◆
CE	IR527	RTU★, FLEX	60 tests, 12 mL▲
CE	IS527	RTU★, FLEX	30 tests, 6 mL△

Expression of the von Willebrand factor gene is tissue specific and confined to endothelial cells and megakaryocytes. VWF is present in plasma, in the Weibel-Pallade bodies of endothelial cells, in the alpha-granule in megakaryocytes and platelets derived from them, as well as in the subendothelial matrix of the vessel wall. Results aid in the classification of acute myeloid leukemia FAB type M7, angiosarcoma and epithelioid hemangioendothelioma.

References:

1. Weidner N, Semple JP, Welch WR, Folkman J. Tumor angiogenesis and metastasis - correlation in invasive breast carcinoma. N Engl J Med 1991;324:1-8.
2. Makhlouf HR, Ihsak KD, Goodman ZD. Epithelioid hemangioendothelioma of the liver: a clinicopathologic study of 137 cases. Cancer 1999;85:562-82.

Angiosarcoma (FFPE) stained with FLEX Anti-Von Willebrand Factor, Code GA527, on Dako Omnis.

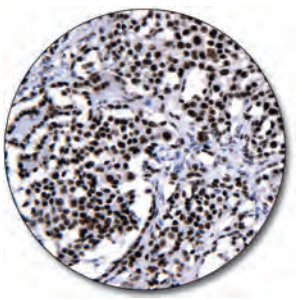
Monoclonal Mouse Anti-Human
Wilms' Tumor 1 (WT1) Protein

Clone: 6F-H2
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme

CE	M3561	Culture supernatant	1 mL
CE	IR055	RTU★, FLEX	60 tests, 12 mL▲
CE	IS055	RTU★, FLEX	30 tests, 6 mL△

WT1 is a gene involved in the induction of Wilms' tumor, a pediatric renal malignancy. Wilms' tumor 1 protein regulates transcription of other genes and can function both as a transcriptional activator and repressor. The antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids. Results aid in the classification of Wilms' tumors, malignant mesotheliomas and acute leukemias.



Mesothelioma (FFPE) stained with FLEX Anti-Wilms' Tumor 1 (WT1) Protein, Code IR055/IS055.

Dako FLEX RTU Antibodies for Soft Tissue/Bones Testing

See our panel of FLEX antibodies at page 72

◆ Packaged in vials for use with Dako Omnis
▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Monoclonal Mouse Anti-Human
ZAP-70**

Clone: 2F3.2
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

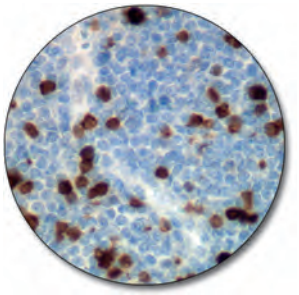
CE	M7303 Culture supernatant	1 mL
CE	IR653 RTU★, FLEX	60 tests, 12 mL▲

Reacts with ZAP-70 expressed in T cells, natural killer cells, pro/pre B cells but not in normal mature B cells. The antibody is a useful aid for classification of a subset of chronic lymphocytic leukemias (CLL). In CLL, ZAP-70 expression is closely associated with an unmutated configuration of the immunoglobulin heavy-chain variable region (IgV_H) genes (1).

** This product is for in vitro diagnostic use only. The product embodies technology described in US Patent 7,329,502 and pending Canadian Patent Application No. 2,413,475.

Reference:

1. Carreras J, Villamor N, Colomo L, Moreno C, Cajal S, Crespo M, et al. Immunohistochemical analysis of ZAP70 expression in B-cell lymphoid neoplasms. J Pathol 2005;205;507-13.



B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma (FFPE) stained with FLEX Anti-ZAP-70, Code IR653.

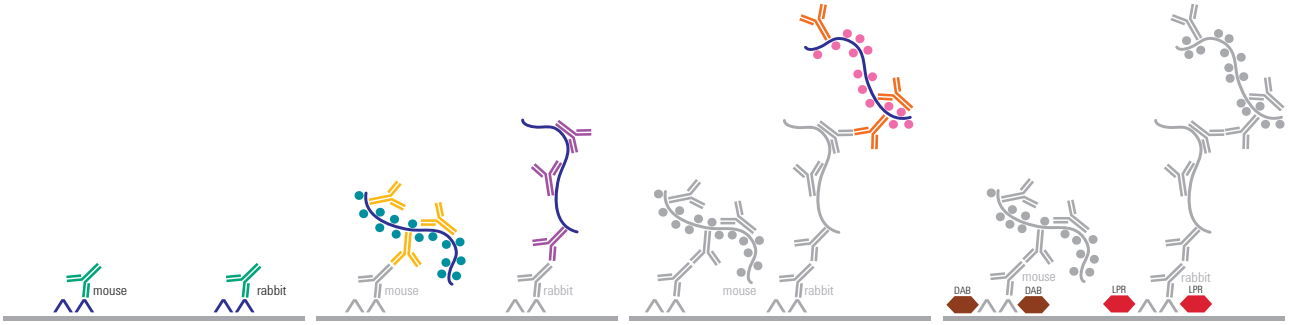
▲ Packaged in vials for use with Autostainer Link instruments
★ Ready-to-use antibody. To be used with EnVision FLEX or EnVision FLEX+ visualization systems on formalin-fixed, paraffin-embedded tissue sections

Antibody Cocktails

Ready-to-use, two-color primary antibody cocktails for EnVision DuoFLEX Doublestain System, designed for Autostainer Link Instruments.

When limited tissue is available - and for time savings - it can be relevant to retrieve more information from the same staining. For this reason, Dako has launched a series of ready-to-use antibody cocktails and a complimentary detection system, which will provide a two-color staining on the same tissue section.

These ready-to-use antibody cocktails are designed for optimal performance using EnVision DuoFLEX Doublestain System, Code Sk110, and will provide a two-color staining reaction on the same tissue section.



STEP 1 Application of mouse and rabbit primary antibodies.

STEP 2 Application of HRP-conjugated polymers and secondary polymers.

STEP 3 Application of AP-conjugated polymers.

STEP 4 Application of chromogenic substrates: brown DAB and LPR.

DuoFLEX Cocktail
Anti-AMACR
Anti-Cytokeratin HMW
Anti-Cytokeratin 5/6

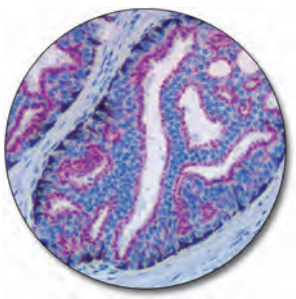
● Formalin ● HIER

CE IC004 Antibody Cocktail▲ 6 mL

Reacts with antigens corresponding to AMACR, cytokeratin high molecular weight, and cytokeratin 5/6 on formalin-fixed, paraffin-embedded tissue sections. This antibody cocktail of Monoclonal Rabbit Anti-Human AMACR, Clone 13H4, Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34βE12, and Monoclonal Mouse Anti-Human Cytokeratin 5/6, Clone D5/16 B4, can be used for classification of prostatic carcinoma, prostatic intraepithelial neoplasia, and its benign mimic lesions (1) after the primary diagnosis is made by morphological examination of H&E stained slides. This antibody cocktail should be visualized using EnVision DuoFLEX Doublestain System, Code SK110.

Reference:

1. Martens MB, Keller JH. Routine immunohistochemical staining for high-molecular weight cytokeratin 34-beta and alpha-methylacyl CoA racemase (P504S) in postirradiation prostate biopsies. Mod Pathol 2006;19:287-290.



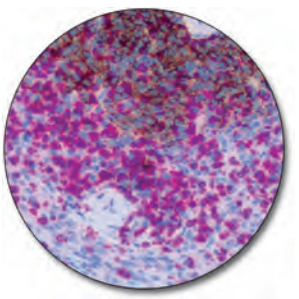
Prostate (FFPE) stained with DuoFLEX Cocktail Anti-AMACR + Anti-Cytokeratin HMW + Anti-Cytokeratin 5/6, Code IC004.

DuoFLEX Cocktail
Anti-CD3
Anti-CD20cy

● Formalin ● HIER

CE IC002 Antibody Cocktail▲ 6 mL

Reacts with antigens corresponding to CD3 and CD20cy on formalin-fixed, paraffin-embedded tissue sections. Polyclonal Rabbit Anti-Human CD3 is useful for the identification of T cells and related classification of neoplasms. Monoclonal Mouse Anti-Human CD20cy, Clone L26, labels cells of the B-cell lineage, and is useful for the classification of neoplasms of B-cell derivation. This antibody cocktail should be visualized using EnVision DuoFLEX Doublestain System, Code SK110.



B-cell lymphoma (FFPE) stained with DuoFLEX Cocktail Anti-CD3 + Anti-CD20cy, Code IC002.

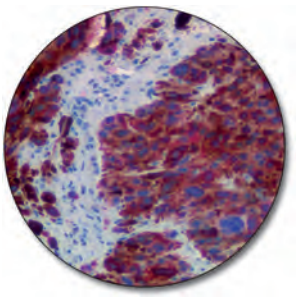
▲ Packaged in vials for use with Autostainer Link instruments

DuoFLEX Cocktail
Anti-S100
Anti-Tyrosinase
Anti-Melan-A

● Formalin ● HIER

CE IC001 Antibody Cocktail▲ 6 mL

Reacts with antigens corresponding to S100, tyrosinase, and melan-A on formalin-fixed, paraffin-embedded tissue sections. Polyclonal Rabbit Anti-S100 is useful for the classification of S100-positive neoplasms, such as malignant melanoma and Langerhans' histiocytosis. Monoclonal Mouse Anti-Human Tyrosinase, Clone T311, is useful for the classification of melanocytic lesions and melanoma. Monoclonal Mouse Anti-Human Melan-A, Clone A103, is useful for the classification of melanomas and is also applicable for angiomyolipomas. This antibody cocktail should be visualized using EnVision DuoFLEX Doublestain System, Code SK110.



Melanoma (FFPE) stained with DuoFLEX Cocktail Anti-S100 + Anti-Tyrosinase + Anti-Melan-A, Code IC001.

▲ Packaged in vials for use with Autostainer Link instruments

Multipurpose Antibodies

Owing to their high specificity and precipitating ability, a number of primary antibodies, notably polyclonal antibodies, are well-suited for a variety of applications. This section presents these antibodies, and lists the techniques for which they have been tested and proven useful.

Polyclonal Rabbit Anti-Human
Alpha-1-Fetoprotein
● Precipitation ● ELISA ● IHC

CE A0008 Ig fraction 0.2 mL

A0008 can be used for detection of alpha-1-fetoprotein in human sera by enzyme-immunoassays (1). A0008 is also a valuable reagent for immunohistochemistry (2).

References:

1. MacDonal DJ, Kelly AM. The rapid quantitation of serum alpha-fetoprotein by two-site micro enzyme immunoassay. Clin Chim Acta 1978;87:367-72.
2. Jacobsen GK, Jacobsen M, Clausen PP. Distribution of tumor-associated antigens in the various histiologic components of germ cell tumors of the testis. Am J Surg Pathol 1981;5:257-66.

Polyclonal Rabbit Anti-Human
Chorionic Gonadotropin (hCG)
● Precipitation ● ELISA ● IHC

CE A0231 Ig fraction 2 mL

The isolated beta-chain of hCG is used for immunization. A0231 cross-reacts with human luteinizing hormone (LH). For immunohistochemical use, the cross-reaction with LH will not cause misinterpretation, and A0231 is well-suited for the demonstration of hCG in trophoblastic elements of germ cell tumors. A0231 is also well-suited for pregnancy tests. For these tests a sensitivity of 1000 international units (IU) hCG/L is required. For monitoring tumor patients, assays with a sensitivity of 10 IU hCG/L are necessary. For such assays A0231 ought not to be used.

Polyclonal Rabbit Anti-
Escherichia Coli
● Precipitation ● Blot

CE B0357 Ig fraction 2 mL

An aqueous extract of a sonicate of *E. coli* (non-transformed strain K12 C600) has been used for immunization. B0357 reacts with at least 80 different *E. coli* antigens in crossed immunoelectrophoresis, and also reveals a multitude of *E. coli* antigens in immunoblotting from SDS polyacrylamide gel electrophoresis. Broad reactivity with *E. coli* proteins (strains C600, HB101 and chi 1776 have been tested) makes B0357 particularly well-suited for monitoring the purification of proteins made in *E. coli* by genetic engineering.

Polyclonal Rabbit Anti-Human
Factor VIII-Related Antigen
● Blot ● ELISA ● IHC

CE A0082 Ig fraction 0.2 mL/2 mL

The term 'Factor VIII-related antigen' has been replaced by the more precise designation 'von Willebrand factor'. Therefore, A0082 has been described under the heading von Willebrand factor. A reference to the nomenclature is given below.

Reference:

1. Marder VJ, Mannucci PM, Firkin BG, Hoyer LW, Meyer D. Standard nomenclature for factor VIII and von Willebrand factor: a recommendation by the International Committee on Thrombosis and Haemostasis. Thromb Haemostas 1985;54:871-2.

Polyclonal Rabbit Anti-Human
Fibrinogen
● Precipitation ● IHC

CE F0111 FITC. Ig fraction 2 mL

F0111 reacts with fibrinogen, fibrin and the fibrinogen fragments D and E.

Polyclonal Rabbit Anti-
Glial Fibrillary Acidic Protein (GFAP)
● Precipitation ● IHC

CE Z0334 Ig fraction 0.2 mL/1 mL

GFAP isolated from bovine spinal cord has been used for immunization. Z0334 reacts strongly with human GFAP and with GFAP in many animal species tested: cat, cow, dog, mouse, rat and sheep.
In the central nervous system Z0334 labels astrocytes and some groups of ependymal cells. In the peripheral nervous system Schwann's cells, satellite cells and enteric glial cells are labeled. Negative labeling is found in skin, connective tissue, lymphatic tissue, muscle, gastrointestinal tract, including liver and pancreas, kidney, ureter and bladder.
Z0334 is useful particularly for distinguishing cells of astrocytic origin in the central nervous system. The antibody can be used on frozen and formalin-fixed, paraffin-embedded tissue sections.

Polyclonal Rabbit Anti-Human
IgA, Specific for Alpha-Chains
● Blot ● ELISA ● IHC

CE A0262 Ig fraction 1 mL
CE F0204 FITC. Ig fraction 2 mL
CE F0316 FITC. $F(ab')_2$ 1 mL

For use in methods demanding a very high specificity. The specificity and performance of the antibody have been ascertained in immunohistochemistry and ELISA. Additionally, the specificity has been tested by crossed immunoelectrophoresis using 12.5 microlitre antibody per square cm gel area against 2 microlitre human plasma. The antigen used for immunization is serum IgA.
The $F(ab')_2$ fragment antibody is particularly useful for labeling unfixed blood cells containing active Fc receptors, and for other applications where the Fc part of the antibody molecule could disturb.
Please note that $F(ab')_2$ fragment antibodies are not suited for techniques dependant on aggregation or precipitation of antigen-antibody complexes.

Polyclonal Rabbit Anti-Human
IgA, IgG, IgM, Kappa, Lambda
● ELISA ● IHC

CE F0200 FITC. Ig fraction 2 mL
CE P0212 HRP. Ig fraction 2 mL

F0200 is very well-suited for the flourescent treponemal antibody (FTA) test and for the demonstration of anti-nuclear antibodies (ANA) as well as other human autoantibodies, no matter what the immunoglobulin class may be. P0212 has found a wide application in ELISA for the detection of human antibodies.

Polyclonal Rabbit Anti-Human
IgG, Specific for Gamma-Chains
● Blot ● ELISA ● IHC

CE A0423 Ig fraction 1 mL
CE D0336 AP. Affinity isolated 1 mL
CE F0202 FITC. Ig fraction 2 mL
CE F0315 FITC. $F(ab')_2$ 1 mL
CE P0214 HRP. Ig fraction 2 mL

For use in methods demanding a very high specificity. The specificity and performance of the antibody have been ascertained in immunohistochemistry and ELISA. Additionally, the specificity has been tested by crossed immunoelectrophoresis using 12.5 microlitre antibody per square cm gel area against 2 microlitre human plasma.
The $F(ab')_2$ fragment antibody is particularly useful for labeling unfixed blood cells containing active Fc receptors, and for other applications where the Fc part of the antibody molecule could disturb.
Please note that $F(ab')_2$ fragment antibodies are not suited for techniques dependant on aggregation or precipitation of antigen-antibody complexes.

Polyclonal Rabbit Anti-Human
IgM, Specific for Mu-Chains
● Blot ● ELISA ● IHC

CE	A0425	Ig fraction	1 mL
CE	F0203	FITC. Ig fraction	2 mL
CE	F0317	FITC. $F(ab')_2$	1 mL
CE	P0215	HRP. Ig fraction	2 mL

For use in methods demanding a very high specificity. The specificity and performance of the antibody have been ascertained in immunohistochemistry and ELISA. Additionally, the specificity has been tested by crossed immunoelectrophoresis using 12.5 microlitre antibody per square cm gel area against 2 microlitre human plasma.
The F(ab')2 fragment antibody is particularly useful for labeling unfixed blood cells containing active Fc receptors, and for other applications where the Fc part of the antibody molecule could disturb.
Please note that F(ab')2 fragment antibodies are not suited for techniques dependant on aggregation or precipitation of antigen-antibody complexes.

Polyclonal Rabbit Anti-Human
Kappa Light Chains
● Precipitation ● Blot ● ELISA ● IHC

CE	A0191	Ig fraction	2 mL
CE	F0198	FITC. Ig fraction	2 mL

These reagents have been produced in a manner that ensures a particularly wide specificity for kappa-chains. The specificity is directed against surface as well as hidden determinants and has been ascertained by gel precipitation techniques and immunohistochemistry.
A0191 is excellent for the typing of free and bound monoclonal kappa-chains by immunoelectrophoresis and immunofixation.

Polyclonal Rabbit Anti-Human
Lambda Light Chains
● Precipitation ● Blot ● ELISA ● IHC

CE	A0193	Ig fraction	2 mL
CE	F0199	FITC. Ig fraction	2 mL

The antigen used for immunization is a pool of human lambda Bence Jones proteins. Therefore, a reagent with a particularly wide specificity for lambda-chains is obtained. The specificity is directed against surface as well as hidden determinants and has been ascertained by gel precipitation techniques and immunohistochemistry.
A0193 is excellent for the typing of free and bound monoclonal lambda-chains by immunoelectrophoresis and immunofixation.

Polyclonal Rabbit Anti-Human
Lysozyme EC 3.2.1.17
● Precipitation ● Blot ● IHC

CE	A0099	Ig fraction	2 mL

A0099 is a valuable tool for identification of histiocytic neoplasias and myeloid leukemias (1, 2).
Lysozyme in undiluted serum and urine can be quantitated by rocket immunoelectrophoresis (3). The buffer used for dilution of the standards should contain 1% bovine albumin, as lysozyme is unstable in protein-poor solutions.
Please see reference 4 for the use of A0099 in immunoblotting.

References:

1. Meister P, Huhn D, Nathrath W. Malignant histiocytosis. Immunocytochemical characterization on paraffin-embedded tissue. Virchows Arch A Path Anat Histol 1980;385:233-46.
2. Krugliak L, Meyer PR, Taylor CR. The distribution of lysozyme, alpha-1-antitrypsin, and alpha-1-antichymotrypsin in normal hematopoietic cells and in myeloid leukaemias. Am J Hematol 1986;21:99-109.
3. Johansson BG, Malmquist J. Quantitative immunochemical determination of lysozyme (muramidase) in serum and urine. Scand J Clin Lab Invest 1971;27:255-61.
4. Mörsky P. Detection of lysozyme and alpha-2-macroglobulin-lysozyme complexes by immunoblotting. Clin Chim Acta 1988;178:327-36.

Polyclonal Rabbit Anti-Human
Thyroglobulin
● Precipitation ● IHC

CE	A0251	Ig fraction	2 mL

The antigen used for the production of A0251 has beeen isolated from normal human thyroids. The antibody has been made specific for thyroglobulin by absorption with insolubilized human serum.

Polyclonal Rabbit Anti-Human
Von Willebrand Factor
● Precipitation ● Blot ● ELISA ● IHC

CE	A0082	Ig fraction	0.2 mL/2 mL

The former designation for von Willebrand factor was factor VIII-related antigen. Determination of von Willebrand factor is possible by rocket immunoelectrophoresis, but attention to experimental details is essential, thus ELISA should be considered a good alternative method. For the use of A0082 in ELISA, please see reference 1. A0082 is very well-suited as primary antibody for the specific immunohistochemical demonstration of von Willebrand factor (2).

References:

1. Cejka J. Enzyme immunoassay for factor VIII-related antigen. Clin Chem 1982;28:1356-8.
2. Sehested M, Hou-Jensen K. Factor VIII-related antigen as an endothelial cell marker in benign and malignant diseases. Virchows Arch (Pathol Anat) 1981;391:217-25.

Secondary Antibodies

Secondary antibodies (antibodies to animal immunoglobulins) are utilized either for the direct detection of animal immunoglobulins or for amplification of the reaction between a primary antibody and the target antigen. Secondary antibodies play an important role in immunohistochemical procedures, immunoblotting, ELISAs and a number of other immunological methods. All Dako secondary antibodies and their conjugates are carefully tested to ensure good performance and low lot-to-lot variation. Several Dako secondary antibodies are presented in different grades regarding antiserum purification (immunoglobulin fraction of antiserum, affinity-isolated antibody, $F(ab')_2$ fragment antibody) and also regarding the absorptions which have been performed to remove interspecies cross-reactions.

Further Information
A package insert with detailed product description and guidelines for dilutions accompanies all Dako secondary antibodies.

Polyclonal Rabbit Anti-
Cow Immunoglobulins

RUO	P0159	HRP. Ig fraction	2 mL

The antibody has not been absorbed to remove cross-reactions with immunoglobulins from other species, therefore it shows a particularly strong reaction with its corresponding antigen. P0159 is very good for indirect immunohistochemical techniques, when the primary antibody has been raised in calf or cow. P0159 can also be used for ELISA and immunoblotting.

Polyclonal Rabbit Anti-
Goat Immunoglobulins

CE	F0250	FITC. Ig fraction	2 mL
CE	P0160	HRP. Ig fraction	2 mL

The antibody has not been absorbed to remove cross-reactions with immunoglobulins from other species, therefore it shows a particularly strong reaction with its corresponding antigen. F0250 and P0160 are very good for indirect immunohistochemical techniques. Additionally, P0160 works well in ELISA and immunoblotting.

Polyclonal Rabbit Anti-
Goat Immunoglobulins

CE	E0466	Biotin. Affinity isolated	1 mL
CE	P0449	HRP. Affinity isolated	1 mL

Cross-reaction with human immunoglobulins has been removed by solid-phase absorption. The antibody may cross-react with immunoglobulins from other species. Due to a particularly strong cross-reaction with sheep immunoglobulins, E0466 serves as an excellent link antibody with sheep primary antibodies.
E0466 and P0449 are well-suited for immunohistochemistry, ELISA and immunoblotting.

Polyclonal Rabbit Anti-
Guinea Pig Immunoglobulins

CE	P0141	HRP. Ig fraction	2 mL

The antibody has not been absorbed to remove cross-reactions with immunoglobulins from other species, therefore it shows a particularly strong reaction with its corresponding antigen. P0141 is well-suited for immunohistochemistry, ELISA and immunoblotting.

Polyclonal Goat Anti-
Mouse Immunoglobulins

CE	Z0420	Affinity isolated	1 mL
CE	D0486	AP. Affinity isolated	2 mL
CE	E0433	Biotin. Affinity isolated	1 mL
CE	P0447	HRP. Affinity isolated	1 mL

Cross-reaction with human immunoglobulins and fetal calf serum has been removed by solid-phase absorption. The antibody may cross-react with immunoglobulins from other species. However, it should be noted that the cross-reaction with rabbit immunoglobulins is very low. Therefore, the reagents are particularly well-suited for double labeling techniques when the two primary antibodies are from mouse and rabbit, respectively.
Main applications are immunohistochemistry, ELISA and immunoblotting.

Polyclonal Rabbit Anti-
Mouse Immunoglobulins

RUO	F0232	FITC. Ig fraction	2 mL
CE	P0161	HRP. Ig fraction	2 mL

The antibody has not been absorbed to remove cross-reactions with immunoglobulins from other species, therefore it shows a particularly strong reaction with its corresponding antigen. Cross-reaction with human and cow immunoglobulins is pronounced.
Main applications are as follows: *Immunohistochemistry*: F0232 and P0161. *ELISA and immunoblotting*: P0161.
When cross-reaction with human and rat immunoglobulins and fetal calf serum disturbs, we recommend the use of one of Dako's preabsorbed antibodies to mouse immunoglobulins.

Polyclonal Rabbit Anti-
Mouse Immunoglobulins

CE	Z0259	Ig fraction	2 mL
CE	D0314	AP. Affinity isolated	2 mL
CE	E0354	Biotin. Affinity isolated	1 mL
CE	E0413	Biotin. Affinity-isolated $F(ab')_2$	1 mL
CE	F0261	FITC. Ig fraction	2 mL
CE	P0260	HRP. Ig fraction	2 mL

Cross-reaction with human immunoglobulins and fetal calf serum has been removed by solid-phase absorption. The reagents may cross-react with immunoglobulins from other species.
Main applications are as follows: *Immunohistochemistry*: Z0259, D0314, E0354, E0413, F0261 and P0260. Please note that E0413 should be preferred to E0354 for the staining of blood cells and for other applications where the Fc part of the antibody could disturb. *ELISA and immunoblotting*: Z0259, D0314, E0354, E0413 and P0260. P0260 is particularly well-suited for the demonstration of monoclonal antibodies in ELISA.

Polyclonal Goat Anti-
Rabbit Immunoglobulins

CE	D0487	AP. Affinity isolated	1 mL
RUO	E0432	Biotin. Affinity isolated	1 mL
CE	P0448	HRP. Affinity isolated	1 mL

Cross-reaction with human immunoglobulins and fetal calf serum has been removed by solid-phase absorption. The antibody may cross-react with immunoglobulins from other species. All reagents are well-suited for immunohistochemistry, ELISA and immunoblotting.

Secondary Antibodies (continued)

Monoclonal Mouse Anti-
Rabbit Immunoglobulins
Clone: MR12/53
Isotype: IgG1, kappa

CE	M0737	Culture supernatant	1 mL

Is intended as a second stage reagent to be used when labeling tissue or cell samples with rabbit primary antibodies.

Polyclonal Swine Anti-
Rabbit Immunoglobulins

CE	Z0196	Ig fraction	2 mL
CE	D0306	AP. Affinity isolated	1 mL
CE	E0353	Biotin. Affinity isolated	1 mL
CE	E0431	Biotin. Affinity-isolated $F(ab')_2$	1 mL
CE	F0205	FITC. Affinity isolated	2 mL
CE	P0217	HRP. Ig fraction	2 mL
CE	P0399	HRP. Affinity isolated	1 mL
RUO	R0156	TRITC. Affinity isolated	2 mL

Cross-reaction with human immunoglobulins has been removed by solid-phase absorption. The antibody may cross-react with immunoglobulins from other species.
All reagents are well-suited for immunohistochemical techniques although E0431 should be preferred to E0353 for staining of blood cells and for other applications, where the Fc part of the antibody could disturb. Z0196 is also widely used as secondary antibody in radioimmunoassays. In addition, Z0196, D0306, E0353, E0431, P0217 and P0399 are valuable reagents for ELISA and immunoblotting.

Polyclonal Rabbit Anti-
Rat Immunoglobulins

RUO	P0450	HRP. Ig fraction	1 mL

Cross-reaction with human immunoglobulins and fetal calf serum has been removed by solid-phase absorption. The antibody may cross-react with immunoglobulins from other species. P0450 is well-suited for immunohistochemistry, ELISA and immunoblotting.

Polyclonal Rabbit Anti-
Sheep Immunoglobulins

CE	P0163	HRP. Ig fraction	2 mL

The antibody has not been absorbed to remove cross-reactions with immunoglobulins from other species, therefore it shows a particularly strong reaction with its corresponding antigen. P0163 is well-suited for immunohistochemistry, ELISA and immunoblotting.

Control Reagents

The normal animal sera and animal immunoglobulins listed are well-suited as qualitative negative controls for Dako antibodies. The products are in liquid form and contain an antimicrobial agent.

Negative controls should always be diluted to match the concentration of the corresponding antibody. Negative controls for EnVision FLEX ready-to-use antibodies are also listed here.

Goat Serum (Normal)

RUO X0907 Whole serum 10 mL

Mouse IgG1

CE X0931 Culture supernatant 1 mL

X0931 is a cell culture supernatant containing monoclonal mouse IgG1 antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X0931 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgG1.

Mouse IgG2a

CE X0943 Culture supernatant 1 mL

X0943 is a cell culture supernatant containing monoclonal mouse IgG2a antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X0943 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgG2a.

Mouse IgG2b

CE X0944 Culture supernatant 1 mL

X0944 is a cell culture supernatant containing monoclonal mouse IgG2b antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X0944 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgG2b.

Mouse IgM

CE X0942 Culture supernatant 1 mL

X0942 is a cell culture supernatant containing monoclonal mouse IgM antibody to *Aspergillus niger* glucose oxidase, an enzyme which is neither present nor inducible in mammalian tissues. X0942 is well-suited as a negative control in all techniques utilizing monoclonal mouse antibodies of isotype IgM.

Mouse Serum (Normal)

RUO X0910 Whole serum 1 mL

The serum is from healthy mice of SPF standard (specific pathogen-free animals). X0910 is useful as a negative control for antibodies that are in the form of unfractionated whole mouse serum.

Rabbit Immunoglobulin Fraction (Normal)

RUO X0903 Ig fraction 2 mL/10 mL

This product has been prepared from sera of non-immunized rabbits. The immunoglobulin fraction has been isolated in the same way as the immunoglobulin fraction of Dako rabbit antibodies. The protein concentration of X0903 is 20 g/L.

Rabbit Immunoglobulin Fraction (Solid-Phase Absorbed)

CE X0936 Ig fraction 2 mL

This product has been prepared from sera of non-immunized rabbits. The immunoglobulin fraction has been isolated in the same way as the immunoglobulin fraction of Dako rabbit antibodies. In addition, the product has been passed through a column containing immobilized human plasma proteins. This reduces the non-specific background and makes X0936 particularly well-suited as a negative control for Dako solid-phase absorbed rabbit antibodies. Especially when the primary antibody is used for immunohistochemistry at a relatively high concentration, above 0.1 g/L, X0936 should be preferred to Dako Rabbit Immunoglobulin Fraction (Normal), Code X0903. The protein concentration of X0936 is 15 g/L.

Rabbit Serum (Normal)

RUO X0902 Whole serum 10 mL

Swine Serum (Normal)

RUO X0901 Whole serum 10 mL

Especially for use in immunohistological techniques. Normal swine serum diluted 1:20 might reduce non-specific adsorption of antibodies to tissue, e.g. in the PAP technique.

Universal Negative Control for GA-Series Mouse Primary Antibodies

CE GA750 Ready-to-use 120 tests, 24 mL

Universal negative control for all FLEX ready-to-use **mouse** primary antibodies for use on the Dako Omnis instrument. Packaged in vials for Dako Omnis.

Universal Negative Control for GA-Series Rabbit Primary Antibodies

CE GA600 Ready-to-use 120 tests, 24 mL

Universal negative control for all FLEX ready-to-use **rabbit** primary antibodies for use on the Dako Omnis instrument. Packaged in vials for Dako Omnis.

Universal Negative Control for IR-Series Mouse Primary Antibodies

CE IR750 Ready-to-use 120 tests, 24 mL

Universal negative control for all FLEX ready-to-use **mouse** primary antibodies for use on Automated Link Platforms. Packaged in Universal Vial.

Universal Negative Control for IR-Series Rabbit Primary Antibodies

CE IR600 Ready-to-use 120 tests, 24 mL

Universal negative control for all FLEX ready-to-use **rabbit** primary antibodies for use on Automated Link Platforms. Packaged in Universal Vial.

Universal Negative Control for IS-Series Mouse Primary Antibodies

CE IS750 Ready-to-use 60 tests, 12 mL

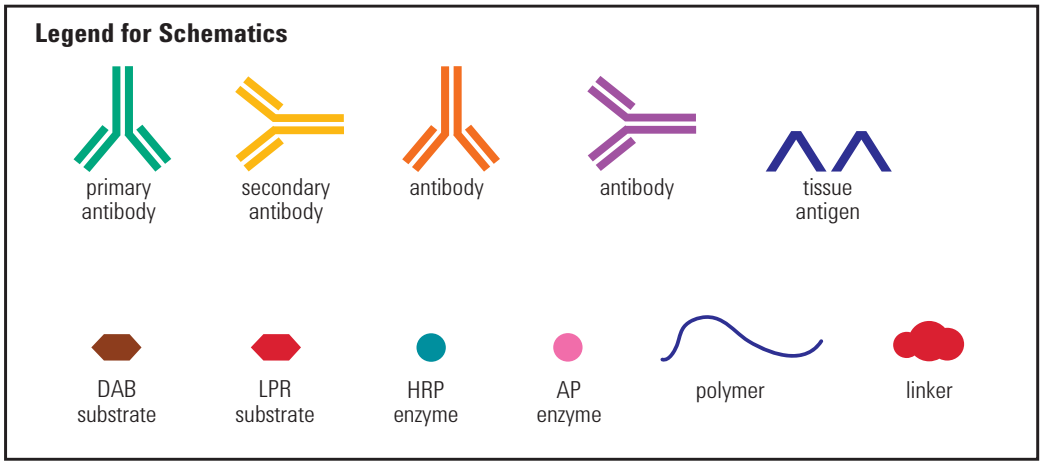
Universal negative control for all FLEX ready-to-use **mouse** primary antibodies for use on Dako Autostainer Instruments. Packaged in Dako Autostainer Vial.

Universal Negative Control for IS-Series Rabbit Primary Antibodies

CE IS600 Ready-to-use 60 tests, 12 mL

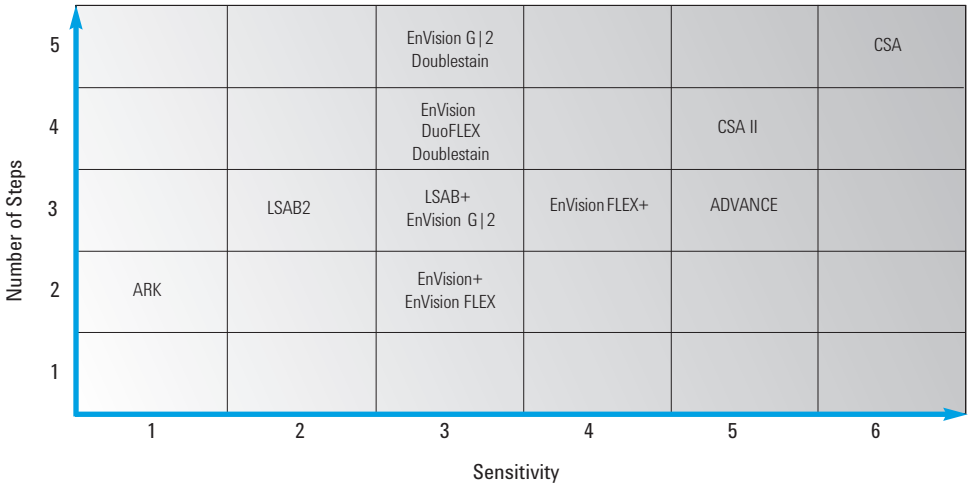
Universal negative control to all FLEX ready-to-use **rabbit** primary antibodies for use on Dako Autostainer Instruments. Packaged in Dako Autostainer Vial.

Visualization Systems



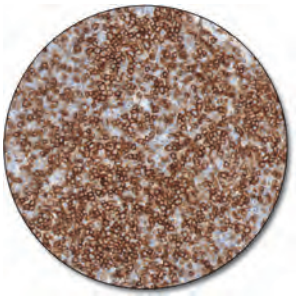
Overview of Dako Visualization Systems

Complexity Versus Sensitivity of Dako Visualization Systems



Comparative Features of Dako Visualization Systems

Product Name	No. of Steps	Primary Antibody	Primary Antibody	Enzyme Label	Technology
EnVision FLEX	2	Concentrate or FLEX RTU	Mouse + Rabbit	HRP	Dextran (Biotin-Free)
EnVision FLEX+	3	Concentrate or FLEX RTU	Mouse + Rabbit	HRP	Dextran (Biotin-Free)
EnVision+	2	Concentrate	Mouse and/or Rabbit	HRP	Dextran (Biotin-Free)
EnVision DuoFLEX Doublestain	4	Cocktail or Concentrate	Mouse + Rabbit	AP and HRP	Dextran (Biotin-Free)
EnVision G	2	3	Concentrate or RTU	Mouse + Rabbit	AP	Dextran (Biotin-Free)
EnVision G	2 Doublestain	5	Concentrate or RTU	Mouse + Rabbit	AP and HRP	Dextran (Biotin-Free)
ADVANCE	3	Concentrate or RTU	Mouse + Rabbit	HRP	Dextran (Biotin-Free)
ARK	2	Concentrate	Mouse	HRP	Labeled Streptavidin-Biotin
CSA	5	Concentrate	Mouse or Rabbit	HRP	Tyramide
CSA II	4	Concentrate	Mouse or Rabbit	HRP	Tyramide (Biotin-Free)
LSAB+	3	Concentrate	Mouse + Rabbit	AP or HRP	Labeled Streptavidin-Biotin
LSAB2	3	Concentrate or RTU	Mouse + Rabbit	HRP	Labeled Streptavidin-Biotin



Chronic lymphocytic leukemia/small lymphocytic lymphoma (FFPE) stained with FLEX Anti-CD23, Code GA781, on Dako Omnis.

Our FLEX Ready-to-Use antibodies are optimized for the FLEX/FLEX+ visualization systems. Simply pick one of the convenience kits and add any of the optional reagents and you have a powerful IHC visualization solution that is ready to take on the diagnostic and workflow challenges in today's pathology laboratory.

Overview of EnVision FLEX and FLEX+ Visualization Systems

Achieve highly reliable and reproducible results without sacrificing quality or flexibility. EnVision FLEX and FLEX+ Visualization Systems give you high-quality reagents, packaged in kit configurations that are easy to choose and use.

Dako Omnis

	EnVision FLEX Systems			
	FLEX High pH	FLEX Low pH	FLEX+ High pH	FLEX+ Low pH
Code	GV800 or GV823	GV800 + GV805 (Low pH TRS) or GV823 + GV805 (Low pH TRS)	GV800 + GV821 (Mouse LINKER) or GV800 + GV809 (Rabbit LINKER)	GV800 + GV805 + GV821 or GV800 + GV805 + GV809

Autostainer Link 48

	EnVision FLEX Systems			
	FLEX High pH	FLEX Low pH	FLEX+ High pH	FLEX+ Low pH
Code	K8000 or K8023	K8000 + K8005 (Low pH TRS) or K8023 + K8005 (Low pH TRS)	K8002 (incl. Mouse LINKER) or K8002 + K8009 (Rabbit LINKER)	K8002 + K8005 or K8002 + K8005 + K8009

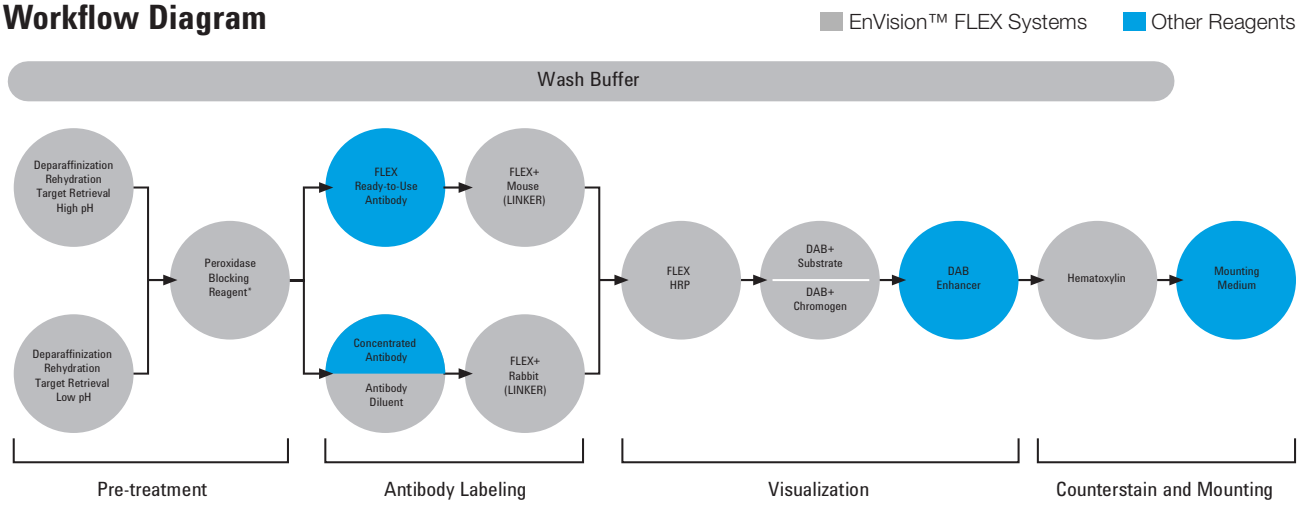
Dako Autostainer/Autostainer Plus

	EnVision FLEX Systems			
	FLEX High pH	FLEX Low pH	FLEX+ High pH	FLEX+ Low pH
Code	K8010 or K8024	K8010 + K8005 or K8024 + K8005	K8012 (incl. Mouse LINKER) or K8012 + K8009 (Rabbit LINKER)	K8012 (incl. Mouse LINKER) + K8005 or K8012 + K8005 + K8009 (Rabbit LINKER)

Single Reagents for EnVision FLEX Systems

	EnVision FLEX Systems		
	Dako Omnis	Autostainer Link 48	Dako Autostainer/Autostainer Plus
Products	Mouse LINKER (Code GV821)	Mouse LINKER (Code K8021)	Mouse LINKER (Code K8022)
	Rabbit LINKER (Code GV809)	Rabbit LINKER (Code K8009)	Rabbit LINKER (Code K8019)
	Hematoxylin (Code GC808)	Hematoxylin (Code K8008)	Hematoxylin (Code K8018)
	Target Retrieval Solution, High pH, 50x (Code GV804)	Target Retrieval Solution, High pH, 50x (Code K8004)	Target Retrieval Solution, High pH, 50x (Code K8004)
	Target Retrieval Solution, Low pH, 50x (Code GV805)	Target Retrieval Solution, Low pH, 50x (Code K8005)	Target Retrieval Solution, Low pH, 50x (Code K8005)
	Wash Buffer, 20x (Code GC807)	Wash Buffer, 20x (Code K8007)	Wash Buffer, 20x (Code K8007)
	Antibody Diluent (Code K8006)	Antibody Diluent (Code K8006)	Antibody Diluent (Code K8006)
	DAB+ Substrate Chromogen System (Code GV825)		

Workflow Diagram



** Onboard Dako Omnis, the blocking step is performed after primary antibody incubation.*

Possibilities

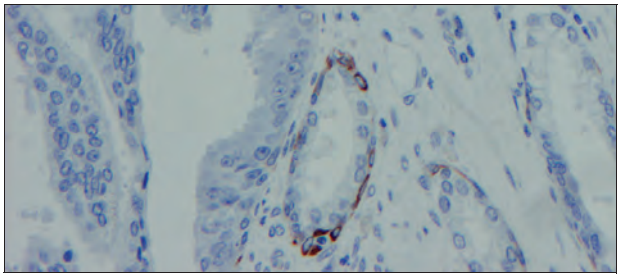
- Sensitivity options for both high sensitivity staining with EnVision FLEX and very-high sensitivity staining with EnVision FLEX+
- Kit components and reagent options create a complete and high quality IHC Solution built upon the proven performance of Dako's EnVision visualization technology platform
- One code number orders the majority of reagents needed to complete a visualization run which ensures that reagents are optimized for use together

Benefits

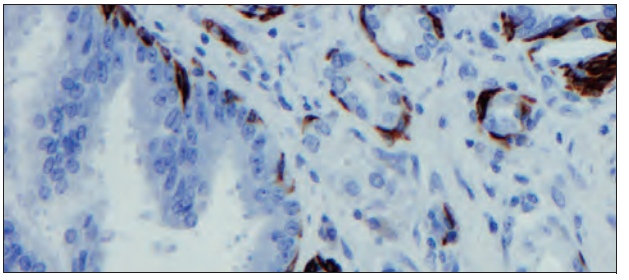
- Offers an integrated solution
- Consistent and documented pre-treatment process
- Reliable, quality reagents with protocols created to optimize laboratory efficiency
- Link software data management capabilities combined with predetermined number of tests for all FLEX kits and options frees personnel from reagent inventory tracking and eliminates excess reagent waste

EnVision FLEX. High pH and Low pH Stains:

Anti-Cytokeratin 5/6, Clone D5/16 B4 (Code M7237) labeling basal cells in prostate gland.



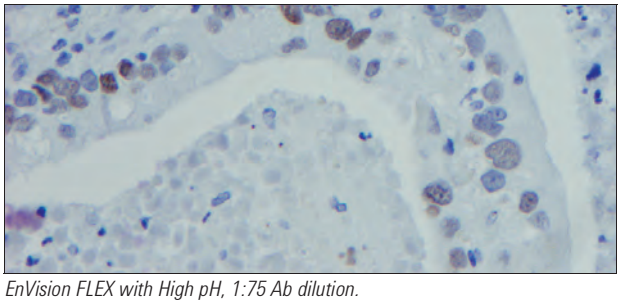
EnVision FLEX with Low pH, 1:25 Ab dilution.



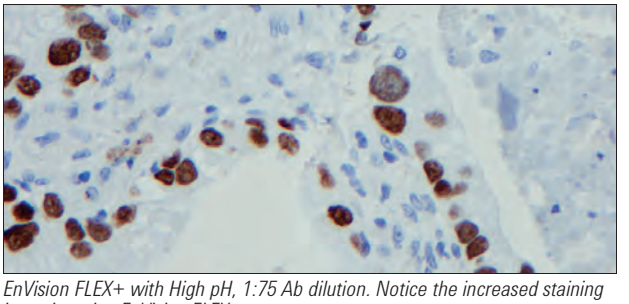
EnVision FLEX with High pH, 1:25 Ab dilution. Notice the increased staining intensity using high pH pre-treatment.

EnVision FLEX and FLEX+. High and Very-High-Sensitivity Stains:

Anti-TTF-1, Clone 8G7G3/1 (Code M3575) labeling lung adenocarcinoma.



EnVision FLEX with High pH, 1:75 Ab dilution.



EnVision FLEX+ with High pH, 1:75 Ab dilution. Notice the increased staining intensity using EnVision FLEX+.

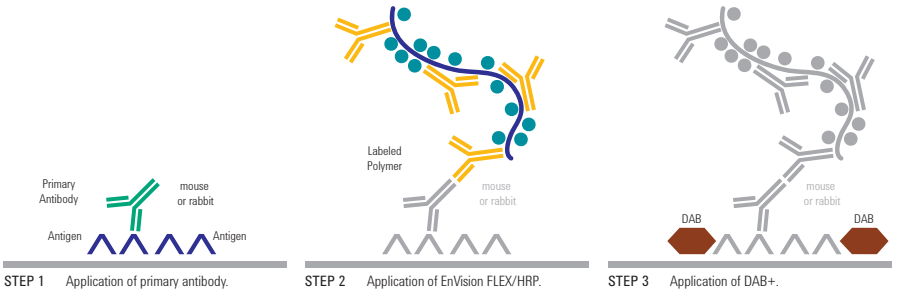
EnVision FLEX Systems

EnVision FLEX and FLEX+ Visualization Systems gives you high-quality reagents packaged in easy-to-choose-and-use kit configurations. Simply pick one of the Convenience Kits, add any of the optional reagents, and you have an IHC visualization solution that satisfies the modern pathology laboratory's complex diagnostic needs.

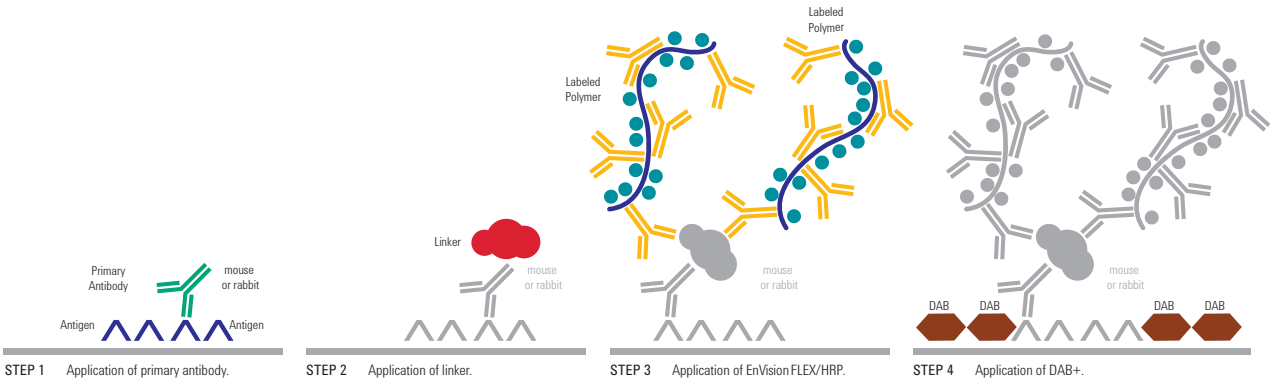
EnVision FLEX Systems are simple, two-step visualization systems of high sensitivity. The FLEX+ kits have even greater sensitivity. They are all based on a unique enzyme-conjugated polymer backbone, which, in addition, also carries secondary antibody molecules. Endogenous biotin will not affect EnVision FLEX staining results.

Formalin-fixed, paraffin-embedded tissue sections are suitable for use with EnVision FLEX systems. The kits are packaged either for use on Dako Omnis, Autostainer Link or Dako Autostainer instruments.

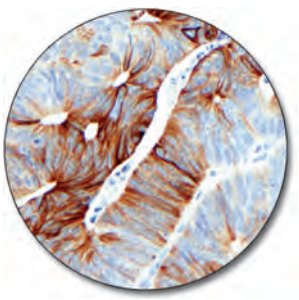
EnVision FLEX System



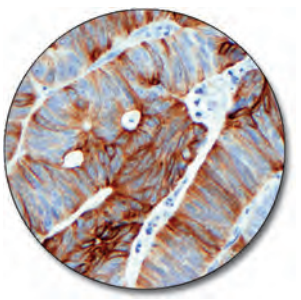
EnVision FLEX+ System



Read more about all the EnVision FLEX and FLEX+ kit configurations and optional reagents on the following pages



EnVision FLEX, High pH (K8000), 1:75 Ab dilution, Protocol #2, 20 min Ab/HRP incubation. Anti-Cytokeratin 20, clone K_s20.8 (Code M7019) applied on colon adenocarcinoma.



EnVision FLEX+, Mouse, High pH (K8002), 1:75 Ab dilution, Protocol #7, 10 min Ab/HRP incubation. More intense staining with shorter incubation time. Anti-Cytokeratin 20, clone K_s20.8 (Code M7019) applied on colon adenocarcinoma.

Dako Omnis

EnVision FLEX, High pH (Dako Omnis)

CE GV800 HRP. Rabbit/Mouse. High pH 600 tests

EnVision FLEX, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Omnis. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer and Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Omnis.

EnVision FLEX Mini Kit, High pH (Dako Omnis)

CE GV823 HRP. Rabbit/Mouse. High pH 150 tests

EnVision FLEX Mini Kit, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Omnis. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer and Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Omnis.

Autostainer Link 48

EnVision FLEX, High pH (Link)

CE K8000 HRP. Rabbit/Mouse. High pH 400-600 tests

EnVision FLEX, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Autostainer Link Instruments. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Autostainer Link Instruments.

EnVision FLEX Mini Kit, High pH (Link)

CE K8023 HRP. Rabbit/Mouse. High pH 125-190 tests

EnVision FLEX Mini Kit, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Autostainer Link Instruments. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Autostainer Link Instruments.

EnVision FLEX+, Mouse, High pH (Link)

CE K8002 HRP. Mouse. High pH 400-600 tests

EnVision FLEX+, Mouse, High pH is a very-high-sensitivity visualization system intended for use in immunohistochemistry together with Autostainer Link Instruments. The EnVision FLEX+ Mouse (LINKER) amplifies the signal of primary mouse antibodies and the reaction is visualized by DAB+ Chromogen. In addition to the EnVision FLEX+ Mouse (LINKER) the convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). The EnVision FLEX+ Rabbit (LINKER), Code K8009, is an optional EnVision FLEX reagent that may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary rabbit antibodies. EnVision FLEX+ convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Autostainer Link Instruments.

Dako Autostainer/Autostainer Plus

EnVision FLEX, High pH (Dako Autostainer/Autostainer Plus)

CE K8010 HRP. Rabbit/Mouse. High pH 400-600 tests

EnVision FLEX, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Autostainer Instruments. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Autostainer Instruments.

EnVision FLEX Mini Kit, High pH (Dako Autostainer/Autostainer Plus)

CE K8024 HRP. Rabbit/Mouse. High pH 125-190 tests

EnVision FLEX Mini Kit, High pH is a high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Autostainer Instruments. The dual link system detects primary mouse and rabbit antibodies and the reaction is visualized by DAB+ Chromogen. The convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). EnVision FLEX convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Autostainer Instruments.

EnVision FLEX+, Mouse, High pH (Dako Autostainer/Autostainer Plus)

CE K8012 HRP. Mouse. High pH 400-600 tests

EnVision FLEX+, Mouse, High pH is a very-high-sensitivity visualization system intended for use in immunohistochemistry together with Dako Autostainer Instruments. The EnVision FLEX+ Mouse (LINKER) amplifies the signal of primary mouse antibodies and the reaction is visualized by DAB+ Chromogen. In addition to the EnVision FLEX+ Mouse (LINKER) the convenience kit includes Peroxidase-Blocking Reagent, EnVision/HRP, DAB+ Chromogen, Substrate Buffer, Target Retrieval Solution, High pH (50x Tris/EDTA buffer, pH 9), and Wash Buffer (20x). The EnVision FLEX+ Rabbit (LINKER), Code K8019, is an optional EnVision FLEX reagent that may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary rabbit antibodies. EnVision FLEX+ convenience kits are compatible with all optional EnVision FLEX and FLEX+ reagents for Dako Autostainer Instruments.

EnVision FLEX Single Reagents

The flexibility and versatility of EnVision FLEX systems make it easy to tailor a range of solutions to meet the specific needs for the pathology laboratories. The Convenience Kits can be supplemented with our EnVision FLEX Single Reagents.

Dako Omnis

- Mouse LINKER
- Rabbit LINKER
- Hematoxylin
- Target Retrieval Solution, High pH
- Target Retrieval Solution, Low pH
- DAB+ Substrate Chromogen System
- Antibody Diluent
- Wash Buffer

Autostainer Link

- Mouse LINKER
- Rabbit LINKER
- Hematoxylin
- Target Retrieval Solution, High pH
- Target Retrieval Solution, Low pH
- Antibody Diluent
- Wash Buffer

Dako Autostainer/Autostainer Plus

- Mouse LINKER
- Rabbit LINKER
- Hematoxylin
- Target Retrieval Solution, High pH
- Target Retrieval Solution, Low pH
- Antibody Diluent
- Wash Buffer

Dako Omnis

DAB+ Substrate Chromogen System (Dako Omnis)

CE GV825 Onboard mixing 150 tests

EnVision FLEX DAB+ Substrate Chromogen System (Dako Omnis) is intended for use in immunohistochemistry together with Dako Omnis. The working solution is prepared onboard by the Dako Omnis instrument. It is a high sensitivity DAB system suitable for use in combination with the EnVision FLEX visualization system (Codes GV800/GV823). Upon oxidation, DAB forms a brown end-product at the site of the target antigen. The reagent is intended for use on formalin-fixed, paraffin-embedded tissue sections.

Hematoxylin (Dako Omnis)

CE GC808 Ready-to-use 8 x 22.5 mL, 600 tests

Intended for use in immunohistochemistry together with Dako Omnis. The reagent is recommended for counterstaining on formalin-fixed, paraffin-embedded tissue sections providing a clear blue, nuclear staining.

Mouse LINKER (Dako Omnis)

CE GV821 Ready-to-use 75 tests, 22.5 mL

EnVision FLEX+ Mouse LINKER is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX convenience kits (GV800 and GV823) for Dako Omnis to amplify the signal of primary mouse antibodies.

Rabbit LINKER (Dako Omnis)

CE GV809 Ready-to-use 75 tests, 22.5 mL

EnVision FLEX+ Rabbit LINKER is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX convenience kits (GV800 and GV823) for Dako Omnis to amplify the signal of primary rabbit antibodies.

Target Retrieval Solution, High pH (Dako Omnis)

CE GV804 Concentrate 3 x 68 mL, 225 tests

EnVision FLEX Target Retrieval Solution, High pH (Dako Omnis) is an optional EnVision FLEX reagent containing 50x concentrated Tris/EDTA, pH 9 and is compatible with EnVision FLEX convenience kits for Dako Omnis. The volume is optimized for dilution in Dako Omnis bulk bottles.

Target Retrieval Solution, Low pH (Dako Omnis)

CE GV805 Concentrate 3 x 68 mL, 225 tests

EnVision FLEX Target Retrieval Solution, Low pH (Dako Omnis) is an optional EnVision FLEX reagent containing 50x concentrated citrate buffer, pH 6.1 and is compatible with EnVision FLEX convenience kits for Dako Omnis. The volume is optimized for dilution in Dako Omnis bulk bottles.

Wash Buffer (20x) (Dako Omnis)

CE GC807 Concentrate 20 x 175 mL, 1700 tests

Wash Buffer 20x (Dako Omnis) is intended for use in immunohistochemistry. The product is used as wash buffer for immunohistochemical staining procedures onboard Dako Omnis.

Autostainer Link 48

Hematoxylin
(Link)
CE K8008 Ready-to-use 400-600 tests, 3 x 45 mL

EnVision FLEX Hematoxylin is an optional EnVision FLEX reagent and is recommended for counterstaining. The reagent provides a clear blue, nuclear staining. EnVision FLEX Hematoxylin is compatible with EnVision FLEX and FLEX+ convenience kits.

Mouse (LINKER)
(Link)
CE K8021 Ready-to-use 130-200 tests, 40 mL

EnVision FLEX+ Mouse (LINKER) is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary mouse antibodies.

Rabbit (LINKER)
(Link)
CE K8009 Ready-to-use 130-200 tests, 40 mL

EnVision FLEX+ Rabbit (LINKER) is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary rabbit antibodies.

Target Retrieval Solution, High pH
CE K8004 Concentrate 3 x 30 mL

EnVision FLEX Target Retrieval Solution, High pH is an optional EnVision FLEX reagent containing 50x concentrated Tris/EDTA, pH 9 and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments. One 30 mL bottle, when properly diluted, is enough to fill one PT Link tank.

Target Retrieval Solution, Low pH
CE K8005 Concentrate 3 x 30 mL

EnVision FLEX Target Retrieval Solution, Low pH is an optional EnVision FLEX reagent containing 50x concentrated citrate buffer, pH 6.1 and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments. One 30 mL bottle, when properly diluted, is enough to fill one PT Link tank.

Wash Buffer
CE K8007 Concentrate 1 L

EnVision FLEX Wash Buffer is an optional EnVision FLEX reagent containing 20x concentrated wash buffer and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments.

Dako Autostainer/Autostainer Plus

Hematoxylin
(Dako Autostainer/Autostainer Plus)
CE K8018 Ready-to-use 400-600 tests, 10 x 13 mL

EnVision FLEX Hematoxylin is an optional EnVision FLEX reagent and is recommended for counterstaining. The reagent provides a clear blue, nuclear staining. EnVision FLEX Hematoxylin is compatible with EnVision FLEX and FLEX+ convenience kits.

Mouse (LINKER)
(Dako Autostainer/Autostainer Plus)
CE K8022 Ready-to-use 120-190 tests, 3 x 13 mL

EnVision FLEX+ Mouse (LINKER) is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary mouse antibodies.

Rabbit (LINKER)
(Dako Autostainer/Autostainer Plus)
CE K8019 Ready-to-use 120-190 tests, 3 x 13 mL

EnVision FLEX+ Rabbit (LINKER) is an optional EnVision FLEX+ reagent and may be used with EnVision FLEX and FLEX+ convenience kits to amplify the signal of primary rabbit antibodies.

Target Retrieval Solution, High pH
CE K8004 Concentrate 3 x 30 mL

EnVision FLEX Target Retrieval Solution, High pH is an optional EnVision FLEX reagent containing 50x concentrated Tris/EDTA, pH 9 and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments. One 30 mL bottle, when properly diluted, is enough to fill one PT Link tank.

Target Retrieval Solution, Low pH
CE K8005 Concentrate 3 x 30 mL

EnVision FLEX Target Retrieval Solution, Low pH is an optional EnVision FLEX reagent containing 50x concentrated citrate buffer, pH 6.1 and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments. One 30 mL bottle, when properly diluted, is enough to fill one PT Link tank.

Wash Buffer
CE K8007 Concentrate 1 L

EnVision FLEX Wash Buffer is an optional EnVision FLEX reagent containing 20x concentrated wash buffer and is compatible with all EnVision FLEX and FLEX+ convenience kits for both Autostainer Link Instruments and Dako Autostainer Instruments.

All Platforms

Antibody Diluent
CE K8006 Diluent 400-600 tests, 120 mL

EnVision FLEX Antibody Diluent is an optional EnVision FLEX reagent and is recommended for the dilution of Dako concentrated Primary Antibodies. EnVision FLEX Antibody Diluent is compatible with all EnVision FLEX and FLEX+ convenience kits for both Dako Omnis, Autostainer Link Instruments and Dako Autostainer Instruments.

IHC Microscope Slides, FLEX
CE K8020 Coated glass slides 5 x 100 slides

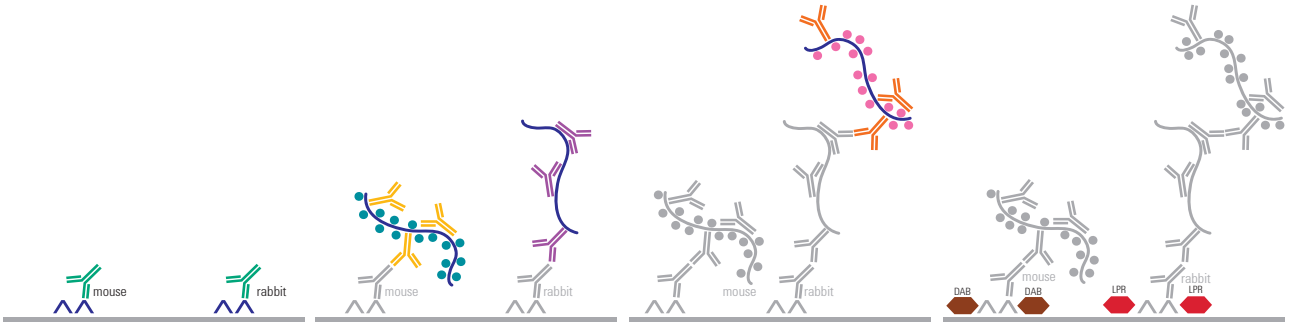
Coated microscope slides for adhesion of formalin-fixed, paraffin-embedded tissue sections for use in immunohistochemistry with Dako EnVision FLEX visualization systems. FLEX IHC Microscope Slides are compatible with, but not limited to, the following Dako instruments: Dako Omnis, Autostainer Link, Dako Autostainer/Autostainer Plus and PT Link.

EnVision DuoFLEX System

EnVision DuoFLEX Doublestain System is a two-color detection system in an easy-to-choose-and-use kit configuration, based on the EnVision polymer technology known to provide high-quality staining results. The system will enable staining of two or more markers on a single slide using HRP and AP reactions. The system has been developed for ready-to-use DuoFLEX Antibody Cocktails, but may also be used with customers' own antibody cocktails or individual antibodies that are sequentially incubated on a single slide. The final staining result will be brown using DAB for mouse primary antibodies and red using LPR (liquid permanent red) for rabbit primary antibodies.

Staining for two or more targets in one tissue section will not only provide a two-color staining result using just one procedure thereby reducing time, but also give a more complex and informative staining result of the antigen expression in the particular tissue section. For further time savings it can be used with Dako DuoFLEX Antibody Cocktails.

EnVision DuoFLEX Doublestain System is a simple, four-step visualization system of high sensitivity. The kit is ready-to-use and suitable for use on formalin-fixed, paraffin-embedded tissue sections. The kit is packaged for use on Autostainer Link Instruments.



STEP 1 Application of mouse and rabbit primary antibodies.

STEP 2 Application of HRP-conjugated polymers and secondary polymers.

STEP 3 Application of AP-conjugated polymers.

STEP 4 Application of chromogenic substrates: brown DAB and LPR.

EnVision DuoFLEX Doublestain System

CE SK110 HRP/AP, Rabbit/Mouse▲ 100-150 tests, 30 mL

EnVision DuoFLEX Doublestain System is intended for use in immunohistochemistry together with Autostainer Link instruments. This system is useful for the simultaneous detection of multiple antigens present in low or high concentrations within one specimen. The visualization is based on peroxidase (HRP) using DAB+ as chromogen and alkaline phosphatase (AP) using Permanent Red as chromogen. EnVision DuoFLEX Doublestain System is biotin-free, thus significantly reducing non-specific staining resulting from endogenous avidin-biotin activity. This visualization system should be used for Dako DuoFLEX Cocktail antibodies.

Note: The number of tests is based on the use of 200 µL or 300 µL of reagent per slide.

▲ Packaged in vials for use with Autostainer Link instruments

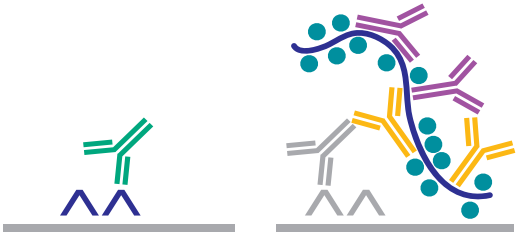
EnVision Systems

Dako EnVision Systems are simple, two-step visualization systems of very high sensitivity. They are based on a unique enzyme-conjugated polymer backbone, which, in addition, also carries secondary antibody molecules. Endogenous biotin will not affect EnVision staining results.

The EnVision+ System has a particularly high sensitivity, and a recommended 30-minute incubation time with primary antibody and EnVision+ Reagent, respectively.

The EnVision G | 2 Systems are 2nd generation visualization kits. Routinely fixed paraffin sections, smears, frozen sections, imprints and cytocentrifuge preparations are suitable for use with EnVision Systems. The number of tests that can be performed with the individual product is based on the use of 100 µL of reagent per slide.

EnVision DuoFLEX Doublestain System is useful for the simultaneous detection of multiple antigens present in low or high concentrations within one specimen.



STEP 1 Application of primary antibody. Incubate 10 or 30 min.

STEP 2 Application of EnVision. Incubate 10 or 30 min.

EnVision Detection Systems
Peroxidase/DAB, Rabbit/Mouse

CE	K4065	HRP. Rabbit/Mouse (DAB+)	150 tests
CE	K5007	HRP. Rabbit/Mouse (DAB+)	500 tests

For use with both rabbit and mouse primary antibodies. The kit contains, in user-friendly dropper bottles, ready-to-use EnVision reagent. Also included is two-component high-sensitivity diaminobenzidine (DAB+) chromogenic substrate system.
The EnVision reagent of this kit is a peroxidase-conjugated polymer backbone, which, in addition, also carries secondary antibody molecules directed against rabbit and mouse immunoglobulins. The combination of several peroxidase molecules and several secondary antibody molecules on the same polymer provides a simple, yet sensitive, visualization system. Endogenous biotin will not affect staining results.
Other reagent provided with the kit:
Extra DAB for double application of chromogen.
Dako Autostainer template exists for Code K5007.

EnVision G | 2 Doublestain System
Rabbit/Mouse (DAB+/Permanent Red)

CE	K5361		150 tests

EnVision G | 2 Doublestain System is a high-sensitivity peroxidase and alkaline-phosphatase-based 2nd generation visualization kit. The kit is intended for use in immunohistochemistry for the simultaneous detection of two different antigens within the same specimen, and is compatible with suitably diluted rabbit and mouse primary antibodies. The kit may be used on formalin-fixed, paraffin-embedded tissue sections and fixed cell smears. In addition to the ready-to-use EnVision G | 2 reagents packaged in Dako Autostainer Reagent Vials, the kit includes both DAB+ and Permanent Red chromogenic substrate systems.
Note: The number of tests for this kit is based on the use of 200 µL of reagent per slide.

EnVision G | 2 System/AP
Rabbit/Mouse (Permanent Red)

CE	K5355		50 tests/500 tests

EnVision G | 2 System/AP is a high-sensitivity alkaline-phosphatase-based 2nd generation visualization kit. The kit is intended for use in immunohistochemistry, and it is compatible with suitably diluted rabbit and mouse primary antibodies. The kit may be used on formalin-fixed, paraffin-embedded tissue sections, frozen sections and fixed cell smears. In addition to the ready-to-use EnVision G | 2 reagents packaged in Dako Autostainer Reagent Vials, the kit includes a Permanent Red chromogenic substrate system. The kit may be used in manual procedures or with the Dako Autostainer instruments.
Note: The number of tests for this kit is based on the use of 200 µL of reagent per slide.

EnVision+ Kits

CE	K4004	HRP. Mouse (AEC+)	150 tests
CE	K4005	HRP. Mouse (AEC+)	1100 tests
CE	K4006	HRP. Mouse (DAB+)	150 tests
CE	K4007	HRP. Mouse (DAB+)	1100 tests
CE	K4008	HRP. Rabbit (AEC+)	150 tests
CE	K4009	HRP. Rabbit (AEC+)	1100 tests
CE	K4010	HRP. Rabbit (DAB+)	150 tests
CE	K4011	HRP. Rabbit (DAB+)	1100 tests

These ready-to-use, peroxidase-based EnVision+ kits are compatible with suitably diluted mouse or rabbit primary antibodies, respectively. In addition to the ready-to-use EnVision+ reagent, the kits include a blocking reagent for endogenous peroxidase, and a high sensitivity 3-amino-9-ethylcarbazole (AEC+) chromogenic substrate system. The kits are provided with detailed instructions.

EnVision+ Dual Link, Single Reagents

CE	K4063	HRP. Rabbit/Mouse	150 tests, 15 mL
CE	K4061	HRP. Rabbit/Mouse	1100 tests, 10 x 11 mL

These ready-to-use, peroxidase-conjugated EnVision+ Dual Link reagents are compatible with suitably diluted rabbit and mouse primary antibodies. A working procedure is included with the reagents.

EnVision+ Single Reagents

CE	K4000	HRP. Mouse	150 tests, 15 mL
CE	K4001	HRP. Mouse	1100 tests, 110 mL
CE	K4002	HRP. Rabbit	150 tests, 15 mL
CE	K4003	HRP. Rabbit	1100 tests, 110 mL

These ready-to-use, peroxidase-conjugated EnVision+ reagents are compatible with suitably diluted mouse or rabbit primary antibodies, respectively. A working procedure is included with the reagents.

Other Visualization Systems

In this section you will find all Dako visualization systems that are not part of the EnVision series.These visualization systems are ADVANCE, ARK, CSA, CSA II, LSAB+ and LSAB2.

ADVANCE

CE	K4069	HRP. Rabbit/Mouse	55 tests, 11 mL
CE	K4068	HRP. Rabbit/Mouse	550 tests, 110 mL

This ready-to-use, peroxidase-based ADVANCE kit is compatible with suitably diluted rabbit and mouse primary antibodies. The ADVANCE kit is a super-sensitive, non-biotin based, immunohistochemical visualization system that is useful for the detection of antigens in low concentrations, for short incubation time or for higher dilution of primary antibodies. ADVANCE is 5 or more times more sensitive than EnVision+ and with approximately the same sensitivity as CSA II.
Note: The number of tests for this kit is based on the use of 200 µL of reagent per slide.

ARK (Animal Research Kit) Peroxidase

RUO	K3954		150 tests

For use with mouse primary antibodies.
Included in the kit is peroxidase-blocking reagent, biotinylated F(ab') anti-mouse Ig, normal mouse serum, peroxidase-conjugated streptavidin, buffered substrate solution, and liquid DAB+ chromogen (3,3'-diaminobenzidine solution). The number of tests is based on the use of 100 µL of reagent per slide. The kit is provided with detailed instructions.

CSA, Catalyzed Signal Amplification System

CE	K1500		150 tests

For use with monoclonal mouse primary antibodies.
The kit contains a blocking solution for endogenous peroxidase, protein block for reduction of background staining, and chromogenic substrate for peroxidase (DAB). The primary antibody and negative control are sufficient for 70 tests. The other reagents of the kit are for 150 tests. The number of tests is based on the use of 100 µL of reagent per slide. The kit is provided with detailed instructions.

Reference:

1. Erber WN, Willis JI, Hoffman GJ. An enhanced immunocytochemical method for staining bone marrow trephine sections. J Clin Pathol 1997;50:389-93.

CSA II, Biotin-Free Catalyzed Amplification System

CE	K1497		150 tests, 15 mL

For use with monoclonal mouse primary antibodies.
The CSA II kit contains a blocking solution for endogenous peroxidase, protein block for reduction of background staining, and chromogenic substrate for peroxidase (DAB). The reagents of the kit are for 150 tests. The number of tests is based on the use of 100 µL of reagent per slide. The kit is provided with detailed instructions.

CSA II Rabbit Link

CE	K1501		150 tests, 15 mL

CSA II Rabbit Link is for use with polyclonal rabbit primary antibodies and the ultra-sensitive, biotin-free CSA II System, Code K1497. The CSA II System is intended for difficult, low-affinity primary antibodies of mouse origin and can be adapted for use with rabbit primary antibodies by replacing the peroxidase-conjugated secondary antibody in Code K1497 with the CSA II Rabbit Link, Code K1501. CSA II Rabbit Link is ready-to-use, peroxidase-conjugated goat anti-rabbit immunoglobulins. The number of tests is based on the use of 100 µL of reagent per test.

LSAB+, Dako REAL Detection Systems

CE	K5005	AP/RED, Rabbit/Mouse	500 tests
CE	K5003	HRP/AEC, Rabbit/Mouse	500 tests
CE	K5001	HRP/DAB+, Rabbit/Mouse	500 tests

For automated use. Can be used with both rabbit and mouse primary antibodies. The kits contain, in user-friendly dropper bottles, ready-to-use biotinylated link antibody and ready-to-use streptavidin conjugated with alkaline phosphatase (K5005) or peroxidase (K5001, K5003).
The substrates provided with the kits are:
K5005: Five-component naphthol phosphate/Fast Red.
K5003: One-component, ready-to-use hydrogen peroxide/aminoethylcarbazole.
K5001: Two-component hydrogen peroxide/diaminobenzidine.

LSAB2 Kits, Universal

CE	K0675	HRP. Rabbit/Mouse	1100 tests
RUO	K0609	HRP. Rabbit/Mouse. For use on rat tissue	150 tests

These 2nd generation visualization kits are for use with both rabbit and mouse primary antibodies. The biotinylated link antibody in the kits is produced in goat. No blocking step for reducing background staining caused by protein-protein interaction is required, the enzyme-conjugated streptavidin is provided in prediluted form.
It is a prerequisite for omission of the blocking step that the primary antibody is diluted in a buffer containing 1% bovine serum albumin. In K0609, the biotinylated link antibody shows no cross-reaction with rat immunoglobulins. This kit is therefore well-suited for use on rat tissue.
Note: The kits, K0609 and K675, do not contain chromogenic substrate.

Streptavidin

CE	P0397	HRP	1 mL

The conjugate is optimized for use in immunohistochemical procedures, but it is also well-suited for other techniques.
The streptavidin used for conjugation has an inherent low non-specific binding. The streptavidin conjugate is particularly useful in techniques where binding to lectins is undesirable because, in contrast to avidin from chicken's egg, streptavidin does not contain carbohydrate moieties.

Ancillaries for IHC

We offer a range of other products in our Immunohistochemistry section. These products cover chromogenic substrates, blocking reagents, buffers and diluents, counterstains, mounting media, proteolytic enzymes, and Dako Pen, slides and Pascal strips.

This section lists reagents that are not used for a specific instrument. For reagents specifically developed for an instrument, please go to the Ancillaries and Accessories section for the instrument.

Chromogenic Substrates

AEC Substrate-Chromogen

CE K3464 Ready-to-use 1100 tests, 110 mL

AEC Substrate-Chromogen is suitable for use in peroxidase-based immunohistochemical and in situ hybridization staining methods. AEC (3-amino-9-ethylcarbazole) forms a red end-product at the site of the target antigen or nucleic acid. AEC must be used together with aqueous mounting fluids.

AEC+ Substrate-Chromogen

CE K3461 Ready-to-use 150 tests, 15 mL
CE K3469 Ready-to-use 1100 tests, 110 mL

AEC+ Substrate-Chromogen is especially useful in applications requiring high sensitivity. It is suitable for use in peroxidase-based immunohistochemical and in situ hybridization staining methods. AEC (3-amino-9-ethylcarbazole) forms a red end-product at the site of the target antigen or nucleic acid. AEC has to be used together with aqueous mounting fluids.

BCIP/NBT Substrate System

CE K0598 150 tests

Intended for both immunohistochemical and in situ hybridization staining procedures. Alkaline phosphatase develops an intensely dark blue-purple, insoluble reaction product when exposed to BCIP (5-bromo-4-chloro-3-indolyl phosphate), and NBT (nitro blue tetrazolium). The number of tests is based on the use of 100 µL of reagent per slide.

DAB+, Liquid

CE K3467 150 tests, 15 mL
CE K3468 1100 tests, 110 mL

Liquid DAB+ is a high-sensitivity substrate-chromogen system for use in peroxidase-based immunohistochemical and in situ hybridization staining methods. DAB (diaminobenzidine) forms a very stable, brown end-product at the site of the target antigen or nucleic acid. DAB may be used together with mounting fluids containing organic solvents.

Fuchsin+ Substrate-Chromogen

CE K0625 300 tests, 30 mL/1100 tests, 110 mL

Intended for both immunohistochemical and in situ hybridization staining procedures when alkaline phosphatase is the enzyme label. The Fuchsin+ Substrate-Chromogen is especially useful in applications requiring high sensitivity and can be used with Dako LSAB+/AP or similar visualization systems. Fuchsin+ forms a red/magenta-colored, semi-permanent reaction product at the site of the target antigen or nucleic acid.

Permanent Red Substrate-Chromogen, Liquid

CE K0640 2-component system 300 tests, 30 mL/1100 tests, 110 mL

Liquid Permanent Red (LPR) Substrate-Chromogen offers ease of use and is intended for use in immunohistochemical and in situ hybridization staining methods where alkaline phosphatase is the enzyme label. LPR forms a permanent red reaction product at the site of the target antigen or nucleic acid, which can be visualized with standard optical light microscopy or fluorescence microscopy using Texas Red or Rhodamine filters (1). Coverslip with permanent or aqueous mounting media. The number of tests is based on the use of 100 µL of reagent per slide.

Reference:

1. Speel EJ, Schutte B, Wiegant J, Raemaekers FC, Hopman AH. A novel fluorescence detection method for in situ hybridization, based on the alkaline phosphatase-fast red reaction. J Histochem Cytochem 1992;40:1299-308.

Blocking Reagents, Buffers, Diluents

Antibody Diluent

CE S0809 Ready-to-use diluent 50 mL/125 mL

Antibody Diluent is intended for the preparation of primary and secondary antibody dilutions as well as negative control reagents for use in immunohistochemical staining procedures.

Antibody Diluent, Dako REAL

CE S2022 Ready-to-use diluent 250 mL

This ready-to-use antibody diluent ensures that low background staining is obtained without any need for additional blocking steps when a user-provided primary antibody is applied using a Dako automated immunostaining instrument.

Antibody Diluent, Background Reducing

CE S3022 Ready-to-use diluent 50 mL/125 mL

This product is for dilution of antibodies which tend to give high, non-specific background staining in immunohistochemical procedures. S3022 diminishes background staining while maintaining adequate, but occasionally reduced, specific staining.

Biotin-Blocking System

CE X0590 Ready-to-use reagents 15 mL + 15 mL

This product inhibits non-specific staining due to endogenous biotin in immunohistochemical procedures employing avidin-biotin based visualization systems. Package size: 15 mL avidin solution and 15 mL biotin solution.

Blocking Reagents, Buffers, Diluents (continued)

Levamisole Solution
CE X3021 AP-inhibitor 15 mL

Levamisole reduces endogenous alkaline phosphatase activity in frozen sections and cell smears. Add 1 drop of X3021 to 1 mL of the chromogenic substrate used for alkaline phosphatase staining. Note that placental and intestinal alkaline phosphatases are not inhibited by levamisole.

Peroxidase-Blocking Solution, Dako REAL
CE S2023 Ready-to-use 250 mL

Strongly inhibits endogenous peroxidase in frozen and formalin-fixed, paraffin-embedded tissue sections and is especially optimized for automated use.

Peroxidase and Alkaline Phosphatase Blocking Reagent (Dual Endogenous Enzyme-Blocking Reagent)
CE S2003 10 x 11 mL△

Suppresses endogenous alkaline phosphatase and peroxidase in cell preparations, frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

Phosphate-Buffered Saline, pH 7.0
CE S3024 6 x 1 L

The buffer is supplied as 6 packages. Each makes 1 L of 0.02 mol/L sodium phosphate buffer, 0.15 mol/L NaCl, pH 7.0.

Protein Block, Serum-Free
CE X0909 110 mL

For blocking non-specific background staining in immunohistochemical procedures. Is compatible with all primary and secondary antibodies regardless of species.

Proteinase K Diluent, Dako REAL
CE S2032 250 mL

For dilution of Dako REAL Proteinase K (S2019).

Target Retrieval Solution
CE S1699 Concentrate 500 mL, 10x concentrated
CE S1700 Ready-to-use solution 500 mL

This product is a modified citrate buffer, pH 6.1. Using S1700 and S1699 for heat-induced target retrieval significantly improves the staining results obtained with many previously unreactive antigens/antibodies in formalin-fixed, paraffin-embedded tissue sections compared to using a standard 0.01 mol/L citrate buffer, pH 6.0. S1700 and S1699 are also useful for in situ hybridization procedures.

Target Retrieval Solution, Citrate pH 6
CE S2369 Concentrate 500 mL, 10x concentrated
CE S2031 Concentrate 500 mL, 10x concentrated

These products are citrate buffers, pH 6, intended for heat-induced epitope retrieval prior to immunohistochemical staining procedures. They are well-suited for use on formalin-fixed, paraffin-embedded tissue sections mounted on glass slides and for use on cytological specimens. S2031 is part of the Dako REAL product line, and especially useful for automated use.

Target Retrieval Solution, pH 9
CE S2367 Concentrate 500 mL, 10x concentrated
CE S2368 Ready-to-use solution 500 mL

This product is a Tris/EDTA buffer, pH 9, intended for heat-induced target retrieval prior to immunohistochemical staining procedures. It is well-suited for use on formalin-fixed, paraffin-embedded tissue sections mounted on glass slides. Compared with 0.01 mol/L citrate buffer, pH 6, the use of Target Retrieval Solution, pH 9, significantly improves staining results for many antigens, and it is especially useful in combination with the Dako EnVision visualization systems. Target Retrieval Solution, pH 9, is as effective as pH 9.9 solutions for the majority of antigens, and it preserves the morphology better.

Target Retrieval Solution, pH 9 (10x), (3-in-1)
CE S2375 Concentrate 500 mL, 10x concentrated

This reagent is designed for optimal performance when used together with Dako PT Link, for 3-in-1 procedure for deparaffinization, rehydration, and heat-induced epitope-retrieval (HIER) of formalin-fixed, paraffin-embedded tissue sections prior to staining on Dako Autostainer, Autostainer Plus, Autostainer Link Instruments or manual staining. This reagent can also be used as target retrieval solution (HIER) after conventional deparaffinization of the tissue sections.

Tris-Buffered NaCl Solution with Tween 20, pH 7.6
CE S3306 Diluent and wash buffer 500 mL, 10x concentrated

Makes 5 L of working buffer, 0.05 mol/L Tris/HCl, 0.30 mol/L NaCl, 0.1% Tween 20, pH 7.6. Contains a preservative. The relatively high salt concentration makes this buffer particularly well-suited for immunohistochemical staining methods that require very thorough washing and for in situ hybridization procedures.

Tris-Buffered Saline, pH 7.6
CE S3001 Diluent and wash buffer 6 x 1 L
CE S1968 Diluent and wash buffer 2 x 5 L

Supplied as packets of buffer salts for making 6 x 1 L or 2 x 5 L of 0.05 mol/L Tris/HCl, 0.15 mol/L NaCl, pH 7.6.

Tween 20
CE S1966 100 mL

Wash Buffer 10x
CE S3006 Concentrate 1 L, 10x concentrated

Makes 10 L of working buffer, 0.05 mol/L Tris/HCl, 0.15 mol/L NaCl, 0.05% Tween 20, pH 7.6. Contains a preservative. Well-suited as a wash buffer for immunohistochemical staining methods using manual procedures and Dako automated platforms.

Counterstains

Dako REAL Hematoxylin
CE S2020 Ready-to-use 500 mL

Aqueous solution of hematoxylin.

Hematoxylin, Mayer's
CE S3309 Ready-to-use aqueous solution 500 mL

Hematoxylin is well-suited as nuclear counterstain for chromogens such as AEC, DAB, Fast Red, Fuchsin and Liquid Permanent Red.

Methyl Green
CE S1962 Ready-to-use 500 mL

Methyl Green enhances nuclear staining in tissue sections and cell preparations when used together with chromogens such as DAB or Fuchsin. A detailed procedure ensuring optimal results is supplied with the product.

△ Packaged in vials for use with Dako Autostainer instruments

Mounting Media

Faramount Mounting Medium, Aqueous

CE S3025 Mounting medium 15 mL

This mounting medium is specifically formulated for mounting tissue specimens, cell smears, and cytospins which have been stained with immunohistochemical methods for viewing by light microscopy. It is ideal for use with chromogens, such as AEC, that are alcohol-soluble or incompatible with organic solvents. Faramount dries completely when slides are cover-slipped forming a coating that facilitates handling and storage.

Fluorescence Mounting Medium

CE S3023 Mounting medium 15 mL

Usage of this mounting medium will help reduce fading of immunofluorescence during microscopy.

Glycergel Mounting Medium, Aqueous

CE C0563 Mounting medium 15 mL

Glycergel is an aqueous, histologic mounting medium. Glycergel is suitable whenever a permanent, watersoluble mounting medium is desired. Provided in dropper bottle.

Ultramount Permanent Mounting Medium, Aqueous

CE S1964 Mounting medium 15 mL

This mounting medium does not require cover-slipping. It is specially formulated for permanent mounting of tissue specimens, cell smears and cytospins which have been stained with histochemical and immunohistochemical methods for viewing by light microscopy. It is ideal for use with chromogens such as AEC and Fast Red that are alcohol-soluble or incompatible with organic solvents. Ultramount dries completely over the specimen forming a clear, solid coating.

Proteolytic Enzymes

Pepsin

CE S3002 Proteolytic enzyme 6 x 250 to 500 mL

Pepsin is used for the proteolytic digestion of paraffin-embedded, formalin-fixed tissues prior to in situ hybridization procedures, or prior to staining of certain antigens by immunohistochemical methods. The pepsin in each packet is sufficient for preparing 250 mL of pepsin solution for in situ hybridization, or 500 mL of pepsin solution for immunohistochemistry. When used in a staining bath, this volume is sufficient for treating 25-50 slides.

Proteinase K

CE S3004 2 mL concentrate 2mL

CE S3020 Ready-to-use 150 tests, 15 mL/1100 tests, 110 mL

Proteinase K is intended for proteolytic digestion of formalin-fixed, paraffin-embedded tissues prior to immunohistochemical or in situ hybridization procedures.

Proteinase K, Dako REAL

CE S2019 4 mL concentrate 160 mL working solution

Dako REAL Proteinase K is intended for proteolytic epitope retrieval in combination with heat-induced epitope retrieval in batch processing of slides. The working solution is prepared by diluting the concentrate 40 times with Dako REAL Proteinase K Diluent, S2032.

Proteolytic Enzyme

CE S3007 Ready-to-use 10 x 11 mL△

Proteolytic Enzyme, Ready-to-Use, is intended for the proteolytic digestion of formalin-fixed, paraffin-embedded tissues, cell blocks or cell specimens prior to immunohistochemical (IHC) or in situ hybridization (ISH) procedures. Proteolytic digestion of formalin-fixed tissues improves accessibility of antibodies and DNA probes to target sites within tissues. In IHC, proteolytic digestion exposes certain epitopes which have been masked during fixation. In ISH procedures, accessibility of DNA sequences is enhanced allowing better probe penetration and hybridization.

Dako Pen, Slides and Pascal Quality Strips

Dako Pen

CE S2002 Delimiting pen 1 unit

Using the Dako Pen, a water repelling 'magic circle' can be drawn around tissue sections. This circle provides a barrier to liquids such as antibody solutions or chromogenic substrates applied to the sections, thus helping to obtain more uniform immunohistochemical staining results and making it possible to reduce the amount of reagents.

IHC Microscope Slides, FLEX

CE K8020 Coated glass slides 5 x 100 slides

Coated microscope slides for adhesion of formalin-fixed, paraffin-embedded tissue sections for use in immunohistochemistry with Dako EnVision FLEX visualization systems. FLEX IHC Microscope Slides are compatible with, but not limited to, the following Dako instruments: Dako Omnis, Autostainer Link, Dako Autostainer/Autostainer Plus and PT Link.

Pascal Quality Strips

CE S2801 100 strips

Pascal Quality Strips are heat and pressure-sensitive strips that allow the user to monitor both pressure and heat inside the Pascal pressure chamber. The strip must register the proper color (charcoal black) to ensure that optimum heat and pressure are achieved. The strip can be dated and used for quality assurance purposes.

Silanized Slides

CE S3003 100 slides

The use of slides coated with organosilane in combination with baking for at least 30 minutes at 55-60 °C ensures optimal adhesion of tissue sections.

△ Packaged in vials for use with Dako Autostainer instruments

Label Printers

Label printers provide a simple and efficient way to permanently identify slides. We offer two label printers: one label printer (Code DL412) which works with Dako instruments connected through DakoLink software as well as Dako CoverStainer, and one (Code S2700) which is specific for Dako Autostainer Plus.

Universal Label Printer (Link) prints text and barcodes on

- Large Flap Slide Labels, Code S3417
- Small Flap Slide Labels, Code DL213

Label Printer (Autostainer Plus) prints text and barcodes on

- Large Flap Slide Labels, Code S3417

Universal Label Printer (Link)

DL412 Label printer — 1 unit

The printer works with all Dako instruments connected through DakoLink software as well as Dako CoverStainer. This direct thermal printer is engineered to print large and small flap labels from Large Flap Slide Label Kit, Code S3417 and Small Flap Slide Label Kit, Code DL213.

Components

- Label printer
- USB communication cable and powercord
- Printed product information

System Specifications

- Model: Zebra GX430t
- Dimensions: 19 cm W x 26 cm D x 19 cm H (7.6" W x 10.2" D x 7.5" H)
- Weight: 2.1 kg (4.6 lbs)
- Electrical: 100-240 VAC , 50-60 Hz
- Ribbon size: 11 cm W x 91 m L (4.3" W x 298.5' L)

Label Printer (Dako Autostainer Plus)

S2700 Label printer — 1 unit

The printer works only with Dako Autostainer Plus instruments. This direct thermal printer is engineered to print large flap labels from Large Flap Slide Label Kit, Code S3417. It does not provide means of connectivity to LIS or LAN.

Components

- Label printer
- USB communication cable and powercord
- Printed product information

System Specifications

- Model: Zebra GX420t
- Dimensions: 19 cm W x 26 cm D x 19 cm H (7.6" W x 10.2" D x 7.5" H)
- Weight: 2.1 kg (4.6 lbs)
- Electrical: 100-240 VAC, 50-60 Hz
- Ribbon size: 11 cm W x 91 m L (4.3" W x 298.5' L)

Slide Labels

The slide label is an innovative new slide identification solution that provides a means for permanent identification of slides using text and barcodes. The labels are highly resistant to heat (up to 130 °C) and chemicals used in the slide staining and preparation process, including xylene, acetic acid, ethanol, ammonia, and common laboratory stains. A chemical resistant flap protects the labels. Slide Labels are printed using a direct thermal process using Label Printers.

Labels are resistant to the following procedures, chemicals and stains

Deparaffinization of tissue sections
HIER in aqueous solutions
Hydrogen peroxide
Glacial acetic acid
Bleach
Hematoxylin stain (organic and aqueous)
Methyl Green stain
Iodine stain
Papanicolaou stain (Pap stain)
Gram stain
PAS stain
Trichrome stain
Wright stain
Silver stain
Giemsa stain
Iron stain

Slide Label Kit, Large Flap

S3417 Large flap slide label kit — 3000 labels

The label kit consists of 6 label rolls, each containing 500 individual labels, 1 ribbon roll for printing of 3000 labels, 1 cleaning pen for printer maintenance, and 1 cleaning kit of 23 mL isopropyl alcohol and 25 cotton swabs.

Specifications

- Label size: 24 mm W x 22 mm H (0.950'' W x 0.875'' H)1 label across
- Tear-off perforation between rows of labels
- 500 labels per roll, 6 rolls per kit
- 3000 labels per kit
- Extra roll with Large Flap Labels, Code S3386
- Cleaning pen for printer maintenance is included in the kit

Slide Labels, Large Flap

S3386 Large flap labels — 500 labels

Slide Label Kit, Small Flap

DL213 Small flap slide label kit — 1500 labels

The slide label is an innovative slide identification solution that provides a means for permanent identification of slides using text and barcodes. The labels are highly resistant to heat (up to 130 °C) and chemicals used in the slide staining and preparation process, including xylene, acetic acid, ethanol, ammonia, and common laboratory stains. Slide Labels are printed using a direct thermal process using Universal Label Printer, Code DL412.

Specifications

- Label size: 0.875" W x 0.75" H (22 mm W x 19 mm H)
- 1 label across
- Tear-off perforation between rows of labels
- 500 labels per roll, 3 rolls per kit
- 1500 labels per kit
- Extra roll with 500 labels, Code S3393
- 1 ink ribbon
- 1 cleaning pen for printer maintenance is included in the kit

Slide Labels, Small Flap

S3393 Small flap labels — 500 labels

pharmDx Solution

Introduction to the pharmDx Solution

Quality results for precise interpretation

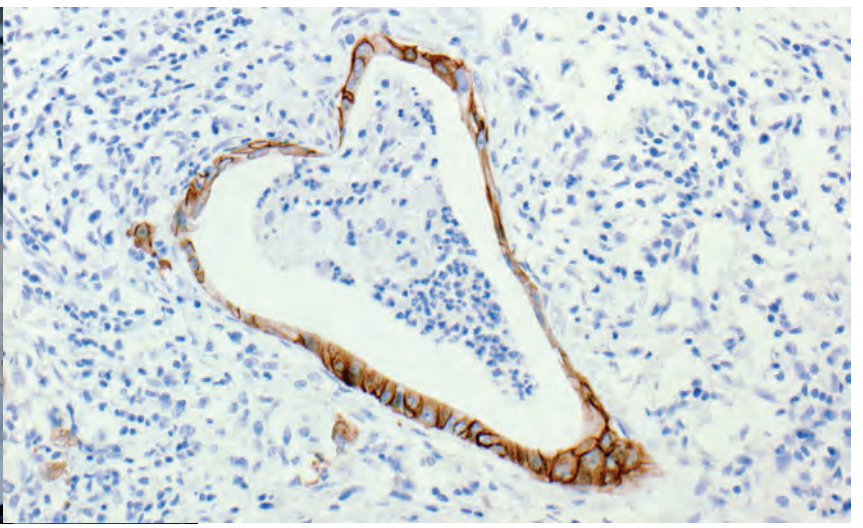
Dako pharmDx Solution is a portfolio of all-in-one pharmDx kits that lead to optimal diagnostic results with accuracy and quality.

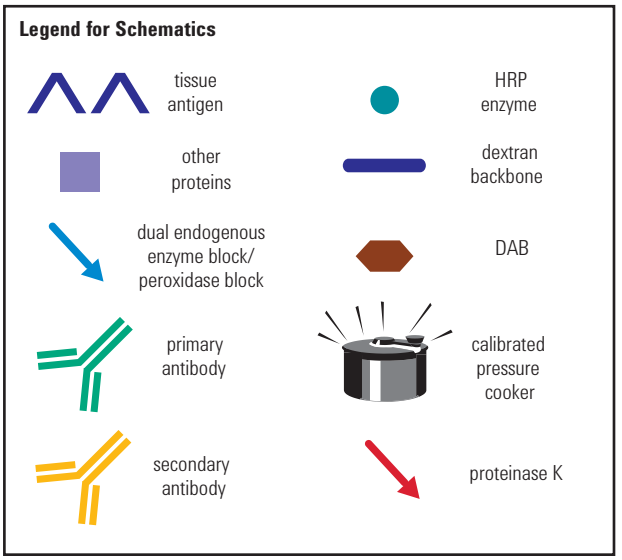
pharmDx is all about personalized medicine

Dako pharmDx kits make a difference to the assessment of patient treatment. The validated kits have the right specificity and sensitivity. Correct results the first time lead to fewer reruns and will help select the right therapy for each patient - every time. We help improve patient care by delivering fast results with great confidence and reducing time from biopsy to diagnosis.

Dako pharmDx Solution provides you with:

- All-in-one kits that include reagents, control cell line slides and protocols
- Established methodology
- Detailed interpretation manuals
- Comprehensive educational programs
- Expert technical support

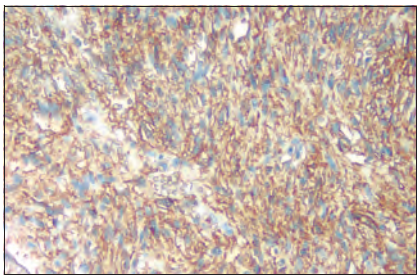



Legend for Schematics
tissue antigen
HRP enzyme
other proteins
dextran backbone
dual endogenous enzyme block/ peroxidase block
DAB
primary antibody
calibrated pressure cooker
secondary antibody
proteinase K

c-Kit pharmDx Kits

c-kit, otherwise known as CD117 and stem cell factor receptor, is a 145 kDa type III transmembrane receptor tyrosine kinase encoded by the c-Kit proto-oncogene. Studies suggest that the c-Kit gene product is closely related to the process of malignant transformation, and to the pathogenesis of some specific types of human solid tumors (1-3).
c-Kit pharmDx is a qualitative immunohistochemical kit system for the identification of c-kit (CD117) protein expression in normal and neoplastic tissues. c-Kit pharmDx is indicated as an aid in the differential diagnosis of gastrointestinal stromal tumors (GIST). Accurate assessment of c-kit protein expression is now a critical factor in the diagnosis of GIST and is becoming increasingly important in influencing decisions regarding clinical management, including the use of Gleevec®/Glivec® (imatinib mesylate) for the treatment of patients with confirmed GIST.
c-Kit pharmDx utilizes a simple two-step staining procedure and is suitable for formalin-fixed, paraffin-embedded specimens. The kit includes ready-to-use primary antibody, negative control reagent, cell line control slides and detailed instructions.

References:
1. de Silva CM, Reid R. Gastrointestinal stromal tumors (GIST): C-kit mutations, CD117 expression, differential diagnosis and targeted cancer therapy with Imatinib. Pathol Oncol Res 2003;9:13-9.
2. van Oosterom AT, Judson I, Verweij J, Stroobants S, Donato di Paola E, Dimitrijevic S, et al. Safety and efficacy of imatinib (STI571) in metastatic gastrointestinal stromal tumours: a phase I study. Lancet 2001;358:1421-3.
3. Miettinen M, Lasota J. Gastrointestinal stromal tumors - definition, clinical, histological, immunohistochemical, and molecular genetic features and differential diagnosis. Virchows Arch 2001;438:1-12.



Gastrointestinal stromal tumor (FFPE), stained with c-Kit pharmDx, Code K1906 or K1907; 3+ staining.

c-Kit pharmDx for Manual Use
CE K1906 25 tests

c-Kit pharmDx for Dako Autostainer
CE K1907 35 tests

Facts about c-Kit pharmDxKits

- CE marked and FDA approved
- Utilizes the same antibody employed in the original Gleevec® clinical trial
- Proven test sensitivity and specificity lessens the burden of extensive validation by laboratory staff
- Clinically relevant protocol and interpretation guidelines based on comparison studies between the clinical trial assay and c-Kit pharmDx including retested specimens from the original clinical trials

The c-Kit pharmDx kits were developed and validated for use with the following Dako accessory reagents.

Materials required, but not supplied:

- Wash Buffer 10x, Code S3006
- Dual Endogenous Enzyme Block, Code S2003
- Target Retrieval Solution, Code S1699 or S1700
- EnVision+/HRP, Rabbit, Code K4002 or K4003
- Liquid DAB+, Code K3467 or K3468
- Hematoxylin for Dako Autostainer, Code S3301

EGFR pharmDx Kits

Epidermal growth factor receptor (EGFR) is a transmembrane receptor encoded by the human *HER1* gene. EGFR is a member of the EGF/erbB receptor family of related growth factor receptors, which include HER2/erbB2 or neu, HER3/erbB3, and HER4/erbB4. The EGFR protein is expressed by a variety of normal cells and is thought to play an important role in the regulation of cell division and tumor growth. EGFR overexpression has been demonstrated in a variety of neoplasms.

EGFR pharmDx Kit is indicated as an aid in identifying colorectal cancer patients eligible for treatment with Erbitux® (cetuximab) or Vectibix™ (panitumumab).

EGFR pharmDx Kit for Manual Use
CE K1492 35 tests

EGFR pharmDx Kit for Dako Autostainer
CE K1494 50 tests

Erbitux® (cetuximab) is an IgG1 monoclonal antibody that exclusively targets the epidermal growth factor receptor. Erbitux® in combination with irinotecan is indicated for the treatment of patients with EGFR-expressing metastatic colorectal cancer after failure of irinotecan, including cytotoxic therapy.

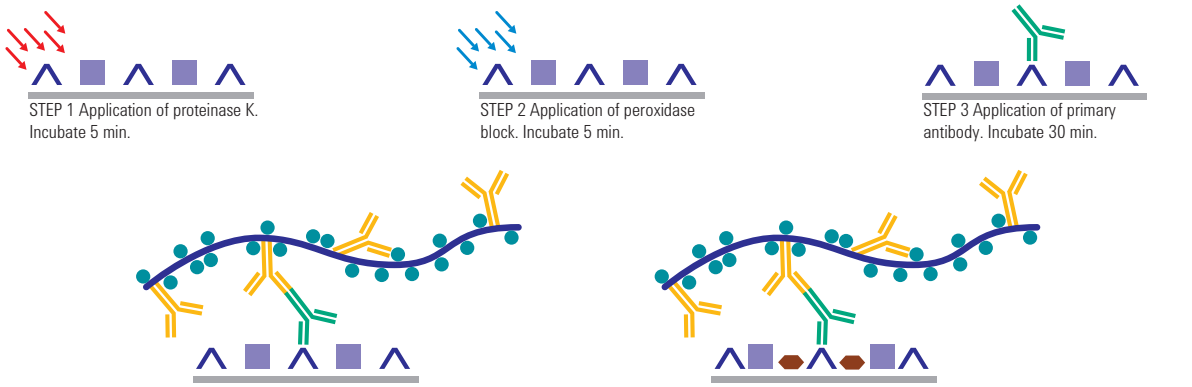
Vectibix™ (panitumumab) is a recombinant, human IgG2 monoclonal antibody that binds specifically to the human epidermal growth factor receptor. Vectibix™ is indicated for the treatment of EGFR-expressing, metastatic colorectal carcinoma with disease progression on or following fluoropyrimidine-, oxaliplatin-, and irinotecan-containing chemotherapy regimens.

The system is based on the consecutive application of:
1. Primary antibody against EGFR
2. Peroxidase-labeled polymer
3. Chromogenic substrate

All reagents, control cell line slides, protocols and scoring guidelines are provided.

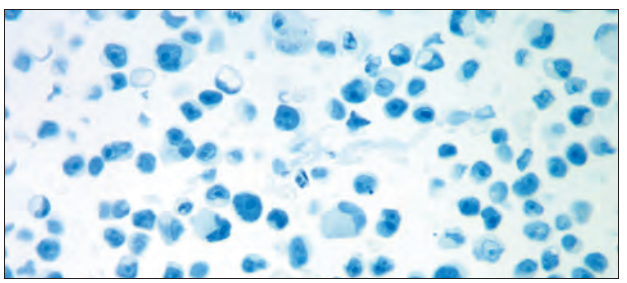
EGFR pharmDx Kits offer:
- Complete set of optimized reagents
- Reproducible IHC assay for identifying EGFR protein expression
- Performance control slides containing sections of formalin-fixed, paraffin-embedded cell lines that represent positive and negative levels of EGFR protein expression

EGFR pharmDx Procedure

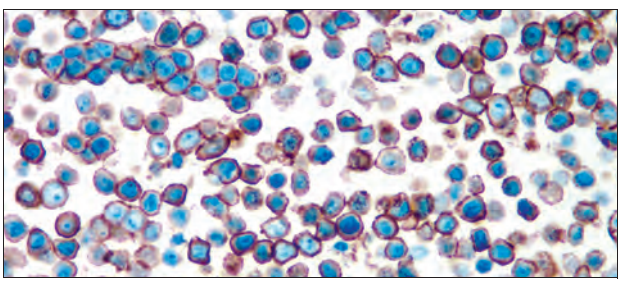


Manual procedure

Control Cell Line Staining for Assay Validation



0 control cell line CAMA-1. No staining of membrane is observed. 10x.



2+ control cell line HT-29. Moderate membrane staining is observed. 10x.

EGFR pharmDx Kits (continued)

Facts about EGFR pharmDx Kit

- CE marked and FDA approved
- The assay specifically detects the EGFR (HER1) protein located on the cell membrane of EGFR-expressing cells

Also available from Dako by request:

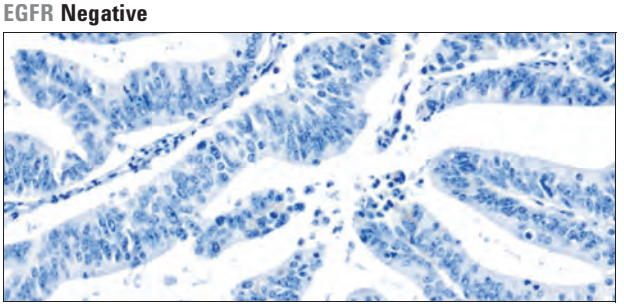
EGFR pharmDx Interpretation Manual, Order No. 08052

EGFR pharmDx Kits include:

- Proteinase K
- Peroxidase Block
- Monoclonal Mouse Antibody
- Mouse IgG1 Negative Control Reagent
- Labeled Polymer
- Liquid DAB+ Chromogen
- DAB Substrate Buffer
- Wash Buffer 10x
- Control Slides

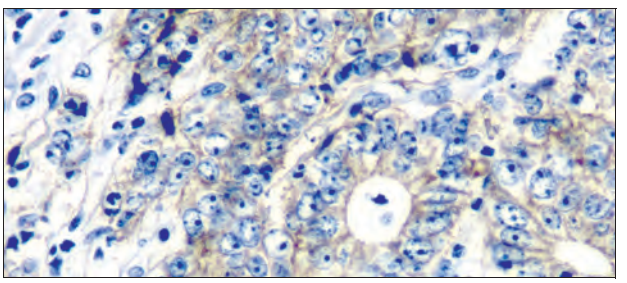
Examples of tissues stained with EGFR pharmDx Kit

EGFR Negative



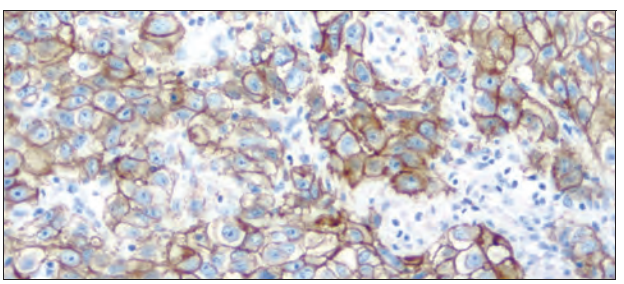
Colorectal cancer, no membrane staining, 0 staining intensity.

EGFR Positive



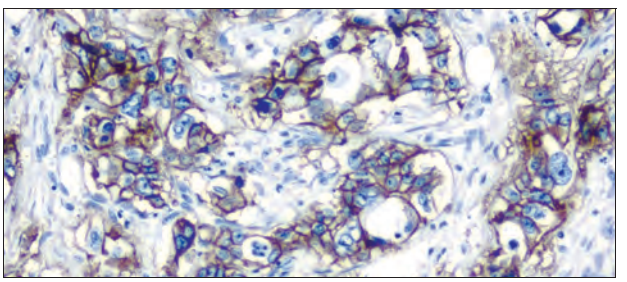
Colorectal cancer, membrane staining, 1+ staining intensity.

EGFR Positive



Colorectal cancer, membrane staining, 2+ staining intensity.

EGFR Positive



Colorectal cancer, membrane staining, 3+ staining intensity.

Recommended counterstain

- Hematoxylin for Dako Autostainer and Autostainer Plus, 500 mL, Code S3301

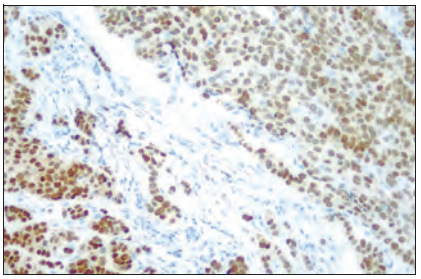
ER/PR pharmDx Kits

Levels of steroid hormone receptors (estrogen and progesterone receptors) can aid in predicting which women are likely to benefit from hormone treatment. Treatment guidelines recommend measurement of steroid hormone receptors status in the diagnosis, prognosis, and treatment planning for women with breast cancer.

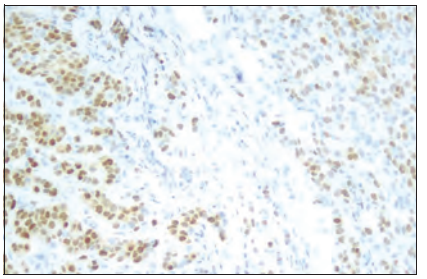
ER/PR pharmDx Kit is indicated as an aid in identifying patients eligible for treatment with anti-hormonal or aromatase inhibitor therapies as well as an aid in the prognosis and management of breast cancer.

ER/PR pharmDx Kit for Manual Use
CE SK310 For Automated Link Platforms 50 tests

ER/PR pharmDx Kit for Dako Autostainer
CE K4071 For Dako Autostainer 50 tests



Estrogen receptor staining, 20x (PS4) + (IS2) = TS6.



Progesterone receptor staining, 20x (PS3) + (IS1) = TS4.

ER/PR pharmDx Kit provides reliable results for ER and PR expression levels.

- CE marked and FDA cleared
- Highly specific ER antibody cocktail and PR antibody with demonstrated sensitivity and specificity (anti-ER, clones 1D5 and ER-2-123; anti-PR, clone PgR 1294)
- Optimized protocol with validated scoring system for the determination of ER/PR status applicable in the management of breast cancer patients (1-5)
- Concordance demonstrated between ER/PR pharmDx and an established method with positive/negative cut-off IHC score calibrated using samples with known biochemical and clinical response data
- Verified cut-off IHC score for ER/PR pharmDx assay
- Proven test sensitivity and specificity lessening the burden of extensive validation by laboratory staff

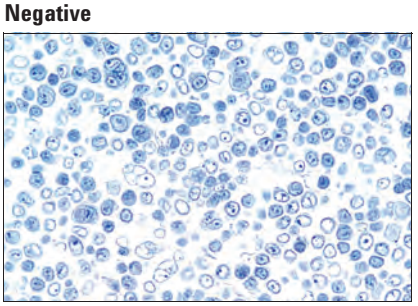
ER/PR pharmDx Kits offer:

- Complete set of optimized reagents
- Ready-to-use antibodies and negative control reagent to ensure consistent sensitivity
- Control slides to validate each run

Also available from Dako by request:
ER/PR pharmDx Interpretation Manual, Order No. 28252

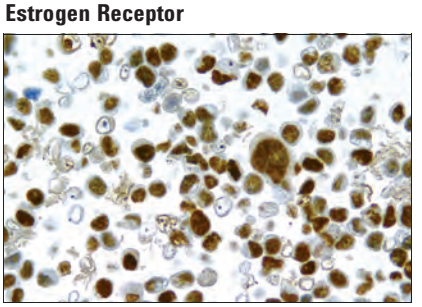
ER/PR pharmDx Kit Control Slides

Negative



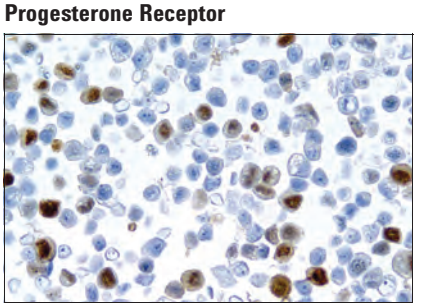
HT-29; negative cell line control stained with ER/PR pharmDx Kit, 40x.

Estrogen Receptor



CAMA-1; positive cell line control stained with ER/PR pharmDx Kit, 40x.

Progesterone Receptor



CAMA-1; positive cell line control stained with ER/PR pharmDx Kit, 40x.

ER/PR pharmDx Kits (continued)

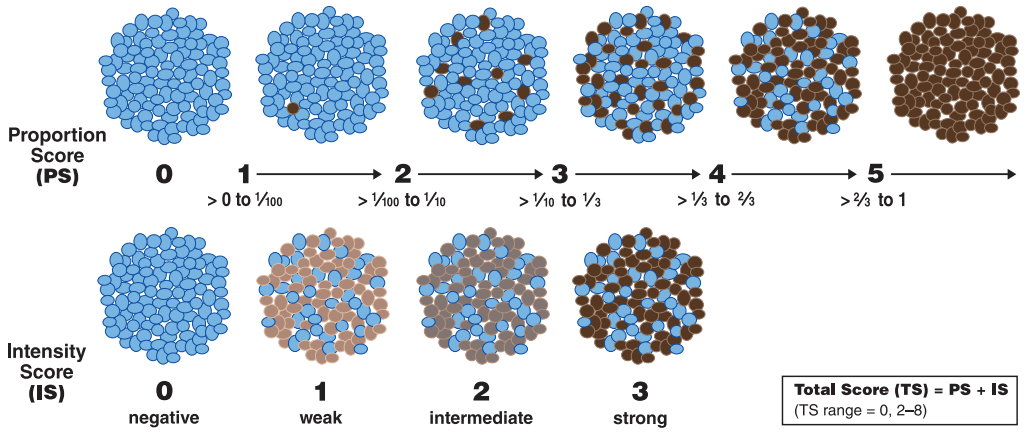
ER/PR pharmDx Scoring System

ER/PR pharmDx Kit labels cell nuclei when using anti-ER and anti-PR. The immunostaining pattern in breast carcinoma is normally heterogeneous. Scoring is based on examination of all tumor cells on the slide.

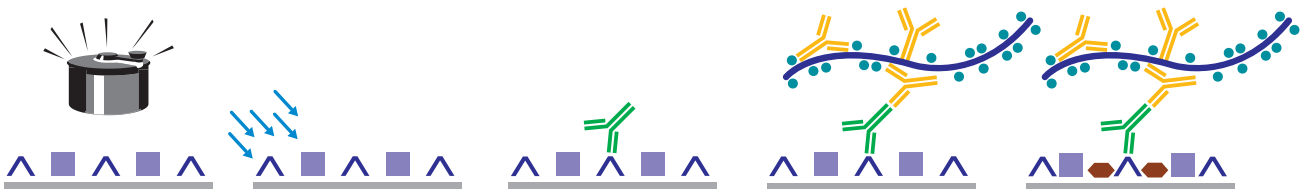
- A proportion score (PS) = estimated proportion of tumor cells with positive nuclear staining
- An intensity score (IS) = estimated average staining intensity of all positive tumor cells
- A total score (TS) = sum of PS and IS (0 or 2-8)
- A positive result for both ER and PR is defined as TS ≥ 3, which was validated in numerous large clinical studies (1-4)

Allred Scoring Guideline

Scoring guidelines modified and used with the permission of D.C. Allred, M.D.



ER/PR pharmDx Procedure



STEP 1 Epitope retrieval in pressure cooker. Incubate 5 min. at 125 °C.

STEP 2 Application of peroxidase block. Incubate 5 min.

STEP 3 Application of primary antibody. Incubate 30 min.

STEP 4 Application of visualization reagent. Incubate 30 min.

STEP 5 Application of chromogenic substrate. Incubate 10 min.

ER/PR pharmDx Kits include:

- Epitope Retrieval Solution
- Peroxidase-Blocking Reagent
- Mouse Anti-Human ER Cocktail
- Mouse Anti-Human PR
- Negative Control Reagent
- Visualization Reagent
- DAB+ Substrate Buffer
- DAB+ Chromogen
- Wash Buffer (10x)
- Control Slides
- User-Fillable Bottles (only included in Code SK310)

Recommended counterstains

- Hematoxylin for Automated Link Platforms, 45 mL, Code SK308
- Hematoxylin for Dako Autostainer and Autostainer Plus, 500 mL, Code S3301

References:

1. Elledge RM, Green S, Pugh R, Allred DC, Clark GM, Hill J, et al. Estrogen receptor (ER) and progesterone receptor (PgR), by ligand-binding assay compared with ER, PgR and pS2, by immunohistochemistry in predicting response to tamoxifen in metastatic breast cancer: a Southwest Oncology Group Study. Int J Cancer 2000;89:111-7.
2. Allred DC, Harvey JM, Berardo M, Clark GM. Prognostic and predictive factors in breast cancer by immunohistochemical analysis. Mod Pathol 1998;11:155-68.
3. Harvey JM, Clark GM, Hilsenbeck SG, Osborne CKO, Allred DC: Immunohistochemistry is superior to ligand binding assay for evaluating estrogen receptor status in a study of 1,982 breast cancer patients. J Clin Oncol 1999;17:1474-81.
4. Mohsin SK,, Weiss H, Havighurst T, Clark GC, Bernardo M, Roanh LD, et al. Progesterone receptor by immunohistochemistry and clinical outcome in breast cancer: a validation study. Mod Pathol 2004;17: 1545-54.
5. Phillips T, Murray G, Wakamiya K, Askaa J, Huang D, Welcher R, et al. Development of standard estrogen and progesterone receptor immunohistochemical assays for selection of patients for antihormonal therapy. Appl Immunohistochem Mol Morphol 2007;15:325-31.

HercepTest Kits

HercepTest is a semi-quantitative immunohistochemical assay for determination of HER2 protein (c-erbB-2 oncoprotein) overexpression in breast cancer tissues routinely processed for histological evaluation and formalin-fixed, paraffin-embedded cancer tissue from patients with adenocarcinoma of the stomach, including the gastroesophageal junction. HercepTest specifically demonstrates overexpression of HER2 protein.

HercepTest is indicated as an aid in the assessment of patients for whom Herceptin™ (trastuzumab) treatment is being considered.

HercepTest for Automated Link Platforms		
CE	SK001	50 tests

HercepTest		
CE	K5204	35 tests

HercepTest for Dako Autostainer		
CE	K5207	50 tests

The system is based on the consecutive application of:

1. Primary antibody against HER2
2. Visualization reagent
3. Chromogenic substrate

All reagents, control cell line slides and detailed instructions are provided.

HercepTest Kits include:

- Epitope Retrieval Solution
- Peroxidase Block
- Polyclonal Rabbit Anti-Human HER2 Protein
- Negative Control Reagent
- Peroxidase-labeled polymer
- Liquid DAB+ Chromogen
- DAB Substrate Buffer
- Wash Buffer 10x (not included in Code SK001)
- Control Slides
- User-Fillable Bottles (only included in Code SK001)

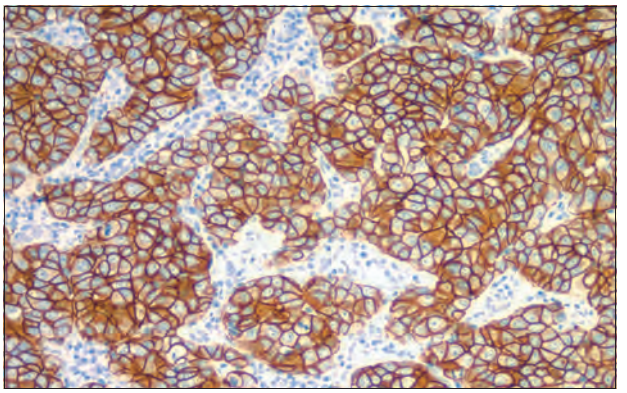
Also available from Dako by request:

Breast cancer

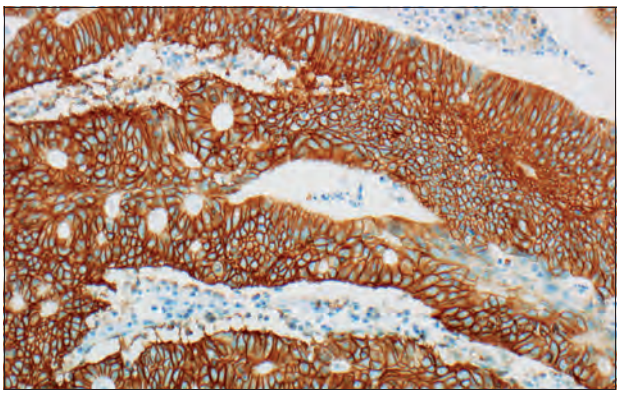
Guidelines for Scoring HercepTest - Breast	Order No. 38602
HercepTest Interpretation Manual - Breast	Order No. 29036

Gastric cancer

Guidelines for Scoring HercepTest - Gastric	Order No. 38647
HercepTest Interpretation Manual - Gastric	Order No. 29018



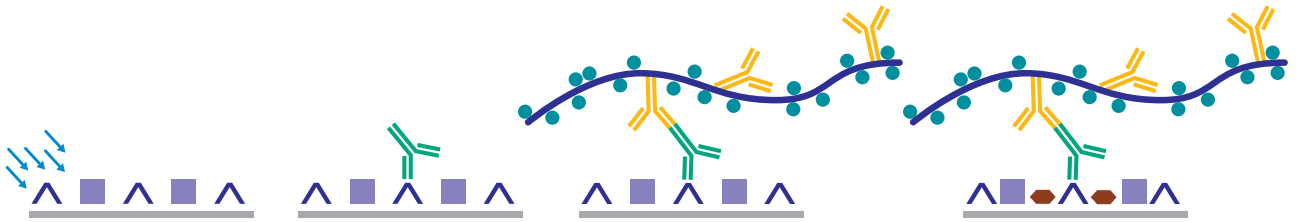
Breast carcinoma (FFPE) stained with HercepTest, Code K5204, 3+ staining.



Gastric adenocarcinoma (FFPE) stained with HercepTest Code K5204, 3+ staining.

HercepTest Kits (continued)

HercepTest Procedure



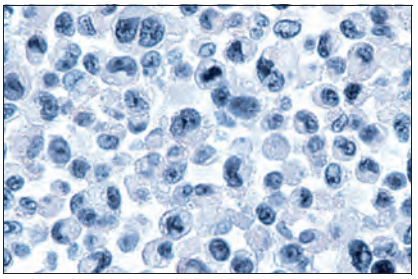
STEP 1 Application of peroxidase block. Incubate 5 min.

STEP 2 Application of primary antibody. Incubate 30 min.

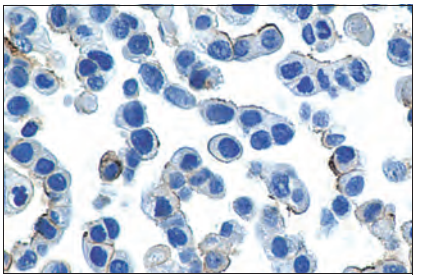
STEP 3 Application of HRP-labeled polymer. Incubate 30 min.

STEP 4 Application of chromogenic substrate. Incubate 10 min.

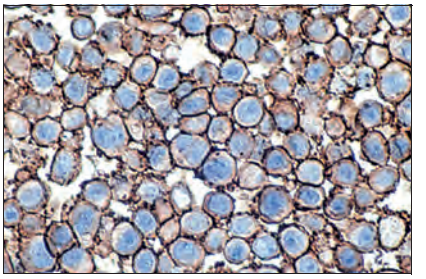
Control Cell Lines for Staining Procedure Validation



0 control cell line MDA-231. No staining of the membrane is observed. 20x.



1+ control cell line MDA-175. A faint perceptible staining of the membrane is observed. The cells exhibit incomplete membrane staining. 20x.



3+ control cell line SK-BR-3. A strong staining of the entire membrane is observed. 20x.

Recommended counterstains

- Hematoxylin for Automated Link Platforms, 45 mL, Code SK308
- Hematoxylin for Dako Autostainer and Autostainer Plus, 500 mL, Code S3301

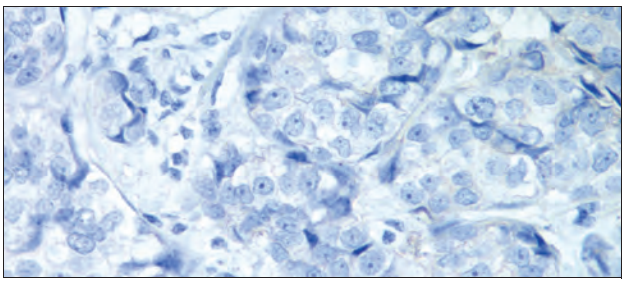
Guidelines for HercepTest Interpretation - Breast Cancer

Only specimens from patients with invasive breast carcinoma should be scored. In cases with carcinoma in situ and invasive carcinoma in the same specimen, only the invasive component should be scored.

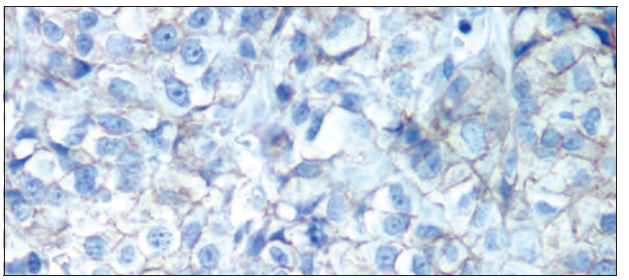
Score to report	HER2 protein overexpression assessment	Staining pattern
0	Negative	No staining is observed, or faint membrane staining present in less than 10% of the tumor cells.
1+	Negative	A faint/barely perceptible membrane staining is detected in more than 10% of the tumor cells. The cells exhibit incomplete membrane staining.
2+	Weakly positive*	A weak to moderate complete membrane staining is observed in more than 10% of the tumor cells.
3+	Strongly positive	A strong complete membrane staining is observed in more than 10% of the tumor cells.

* Weakly positive cases (2+): May be considered equivocal and reflexed to ISH testing.

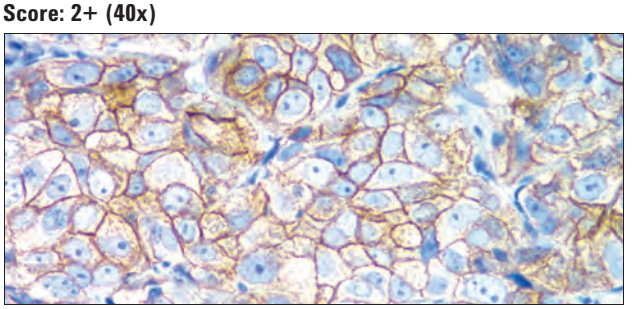
Score: 0 (40x)



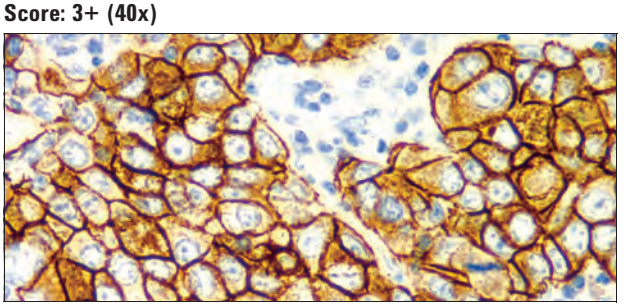
Score: 1+ (40x)



Score: 2+ (40x)



Score: 3+ (40x)



Guidelines for HercepTest Interpretation - Gastric Cancer

Only specimens from patients with stomach or gastroesophageal junction adenocarcinoma should be scored. In cases with intestinal metaplasia and gastric adenocarcinoma in the same specimen, only the gastric (adenocarcinoma) component should be scored. HercepTest is interpreted as negative for HER2 protein overexpression (0 and 1+ staining intensity), equivocal (2+ staining intensity), and positive (3+ staining intensity).

Guidelines for surgical specimens:

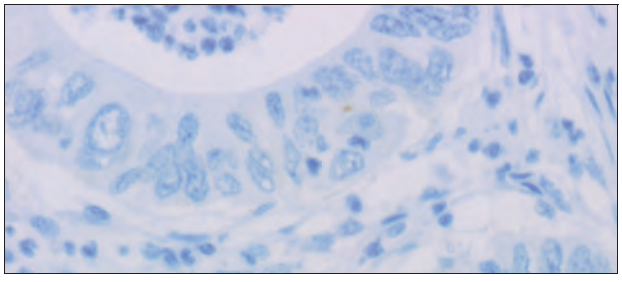
Score to report	HER2 protein overexpression assessment	Staining pattern
0	Negative	No reactivity or membranous reactivity in < 10% of tumor cells
1+	Negative	Faint/barely perceptible membranous reactivity in ≥ 10% of tumor cells; cells are reactive only in part of their membrane
2+	Equivocal	Weak to moderate complete, basolateral or lateral membranous reactivity in ≥ 10% of tumor cells
3+	Positive	Strong complete, basolateral or lateral membranous reactivity in ≥ 10% of tumor cells

Guidelines for biopsy specimens:

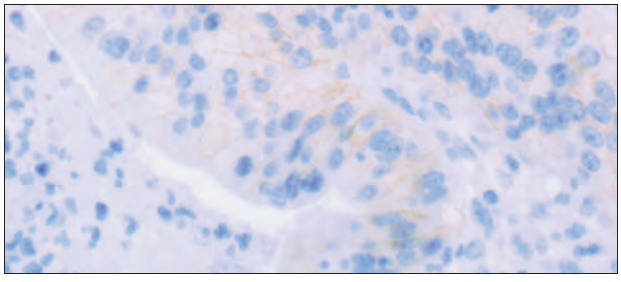
Score to report	HER2 protein overexpression assessment	Staining pattern
0	Negative	No reactivity or no membranous reactivity in any (or < 5 clustered) tumor cells
1+	Negative	Tumor cell cluster (≥ 5 cells) with a faint/barely perceptible membranous reactivity irrespective of percentage of tumor cells stained
2+	Equivocal	Tumor cell cluster (≥ 5 cells) with a weak to moderate complete, basolateral or lateral membranous reactivity irrespective of percentage of tumor cells stained
3+	Positive	Tumor cell cluster (≥ 5 cells) with a strong complete, basolateral or lateral membranous reactivity irrespective of percentage of tumor cells stained

Guidelines based on Hofmann M, Stoss O, Shi D, Büttner R, van de Vijver M, Kim W, et al. Assessment of a HER2 scoring system for gastric cancer: results from a validation study. Histopath 2008; 52:797–805.

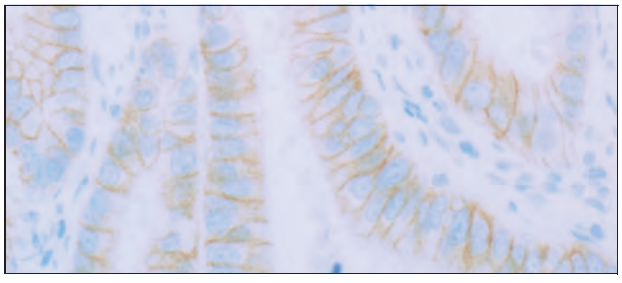
Score: 0 (40x)



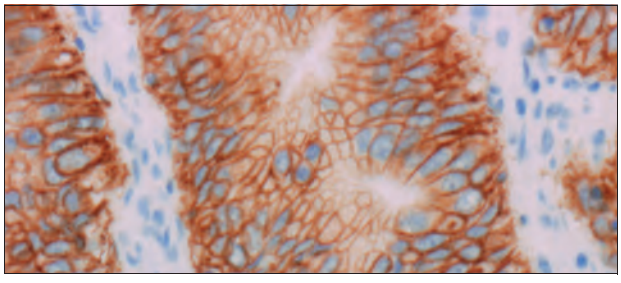
Score: 1+ (40x)



Score: 2+ (40x)



Score: 3+ (40x)



HER2 pharmDx Kits

The human *HER2* gene with the generic name *ERBB2* (also known as *NEU*) encodes the HER2 protein or $p185^{HER2}$. The HER2 protein is a membrane receptor tyrosine kinase with homology to the epidermal growth factor receptor (EGFR). The *HER2* gene is a normal component present in two copies in all normal diploid cells.

Breast Cancer

In a fraction of patients (20-25%) with breast cancer, the *HER2* gene is amplified as a part of the process of malignant transformation and tumor progression. *HER2* gene amplification leads to overexpression of the HER2 protein on the surface of breast cancer cells.

HER2 gene amplification and receptor prevalence correlates with poor breast cancer prognosis, including relapse-free and overall survival.

The recombinant, humanized monoclonal antibody Herceptin™ was rationally developed to specifically target HER2-positive breast cancers. Demonstration of high HER2 overexpression or gene amplification is essential for treatment with Herceptin™. Clinical studies have shown that patients whose tumors have high HER2 receptor overexpression and/or amplification benefit most from Herceptin™ (1).

Gastric Cancer

A number of studies have analysed HER2 overexpression in gastric cancer; one has reported 24% of patients with gastroesophageal adenocarcinomas as showing overexpression of HER2 (2).

Pre-clinical data has showed that trastuzumab has significant antitumor activity in gastric cancer (3). This finding has prompted the investigation of the potential clinical benefit of trastuzumab in this type of cancer. The results from the phase III trial (ToGA), where both HercepTest and *HER2* FISH pharmDx were used as initial screening tests, showed the added benefit of combining Herceptin™ with standard chemotherapy (4).

Kits

HercepTest was the first FDA-approved diagnostic kit designed to quickly and accurately identify patients eligible for Herceptin™ therapy.

HER2 CISH pharmDx Kit is an FDA-approved HER2 diagnostic kit combining the genetic information from FISH with the interpretation advantages of CISH.

HER2 IQFISH pharmDx is the latest FDA-approved Dako HER2 diagnostic kit indicated as an aid in the assessment of patients for whom Herceptin™ treatment is considered.

References:
1. Bilous M, Dowsett M, Hanna W, Isola J, Lebeau A, Moreno A, et al. Current perspectives on HER2 testing: a review of national testing guidelines. Mol Pathol 2003;16:173-82.
2. Tanner M, Hollmén M, Junttila TT, Kapanen AI, Tommola S, Soini Y, et al. Amplification of *HER-2* in gastric carcinoma: association with *Topoisomerase IIα* gene amplification, intestinal type, poor prognosis and sensitivity to trastuzumab. Ann Oncol 2005;16:273-8.
3. Fujimoto-Ouchy K, Sekiguchi F, Yasuno H, Moriya Y, Mori K, Tanaka Y. Antitumor activity of trastuzumab in combination with chemotherapy in human gastric cancer xenograft models. Cancer Chemother Pharmacol 2007;59:795-805.
4. Van Cutsem E, Kang Y, Chung H, et al. Efficacy results from the ToGA trial: a phase III study of trastuzumab added to standard chemotherapy (CT) in first-line human epidermal growth factor receptor 2 (HER2)-positive advanced gastric cancer (GC). J Clin Oncol 2009;18S:Abstract LBA4509.

IQFISH – One-day turnaround time automated on Dako Omnis

The IQFISH assay allows same-day return on diagnoses, a breakthrough that allows pathologists to make quick diagnoses and help oncologists provide treatment decisions for cancer patients. Pathology labs now have the option to simultaneously stain IHC and ISH slides, load by patient case, and process multiple FISH slides in just a few hours. *HER2* IQFISH is the first of many probe launches to come on Dako Omnis, all of which will be in IQFISH quality.

***HER2* IQFISH pharmDx (Dako Omnis)**		
CE	GM333 Ready-to-use	20 tests, 1.6 mL

HER2 IQFISH pharmDx (Dako Omnis) is the hybridization probe for the automated direct fluorescence in situ hybridization (FISH) assay onboard Dako Omnis instruments. It consists of a *HER2* and CEN-17 probe mix in IQISH hybridization buffer and is provided in a ready-to-use vial for the Dako Omnis instrument. The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 75 minutes on the Dako Omnis instrument. The short hybridization time results in a turnaround time of less than 4 hours for a complete FISH staining from deparaffinization to mounting.

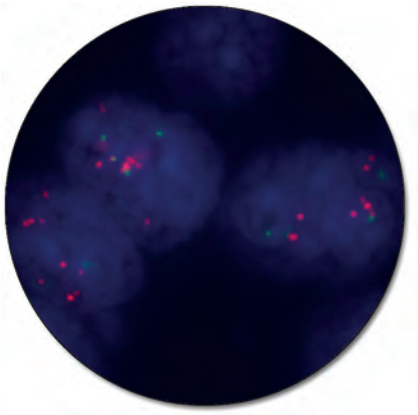
HER2 IQFISH pharmDx (Dako Omnis) is, together with accessory reagent devices, designed to quantitatively determine *HER2* gene amplification in formalin-fixed, paraffin-embedded (FFPE) breast cancer tissue specimens and FFPE specimens from patients with adenocarcinoma of the stomach including gastroesophageal junction.

Gene amplification is determined from the ratio between the number of signals from the hybridization of the *HER2* gene probe (red signals) and the number of signals from the hybridization of the CEN-17 reference chromosome 17 probe (green signals).

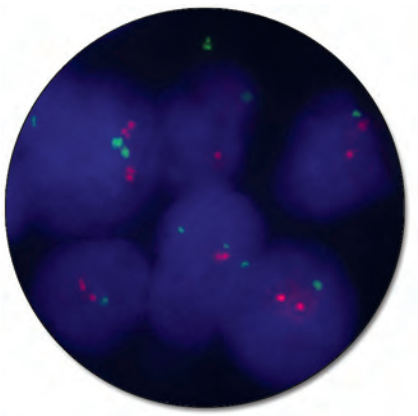
HER2 IQFISH pharmDx (Dako Omnis) is indicated in adjunction to HercepTest in the assessment of patients for whom Herceptin™ (trastuzumab) treatment is being considered.

For breast cancer patients, results from *HER2* IQFISH pharmDx (Dako Omnis) are intended for use as an adjunct to the clinicopathologic information currently used for estimating prognosis in stage II, node-positive breast cancer patients.

HER2 IQFISH pharmDx (Dako Omnis), Code GM333, is CE marked.



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx (Dako Omnis), Code GM333. Tumor cells show HER2 gene amplification.



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx (Dako Omnis), Code GM333. Cells show HER2 gene non-amplification.

Accessory reagents to be used together with *HER2* IQFISH pharmDx (Dako Omnis):

Product Name	Code
Dako Omnis ISH Lid	GC102
Dako Omnis Mixing Device	GC116
Fluorescence Mounting Medium (Dako Omnis)	GM304
ISH Ethanol Solution, 96% (Dako Omnis)	GM300
ISH Pepsin (Dako Omnis)	GM302
ISH Pre-Treatment Solution (20x) (Dako Omnis)	GM301
ISH Stringent Wash Buffer (20x) (Dako Omnis)	GM303
ISH Cleaning Solution (Dako Omnis)	GC207

HER2 pharmDx Kits (continued)

***HER2* IQFISH pharmDx**		
CE	K5731	20 tests

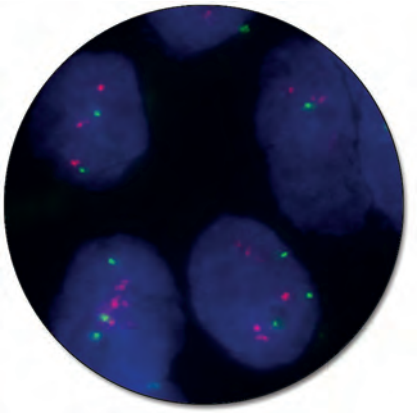
HER2 IQFISH pharmDx is a direct fluorescence in situ hybridization (FISH) assay based on Dako's new fast IQISH hybridization buffer chemistry. The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 60-120 minutes. The short hybridization time results in a turnaround time less than 4 hours for a complete FISH staining from deparaffinization to mounting.

HER2 IQFISH pharmDx is designed to quantitatively determine *HER2* gene amplification in formalin-fixed, paraffin-embedded (FFPE) breast cancer tissue specimens and FFPE specimens from patients with adenocarcinoma of the stomach, including gastro-esophageal junction. *HER2* IQFISH pharmDx with the indication adenocarcinoma of the stomach, including the gastroesophageal junction, is not available in all markets. Gene amplification is determined from the ratio between the number of signals from the hybridization of the *HER2* gene probe (red signals) and the number of signals from the hybridization of the CEN-17 reference chromosome 17 probe (green signals).

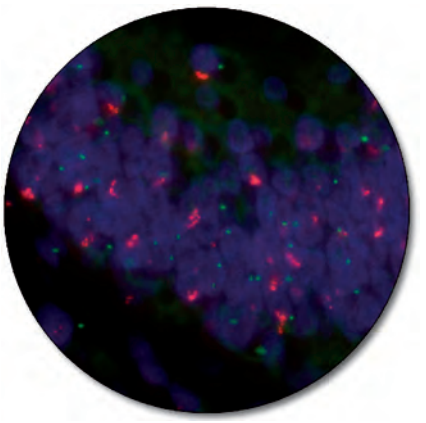
HER2 IQFISH pharmDx is indicated as an aid in the assessment of patients for whom Herceptin™ treatment is being considered. Results from the *HER2* IQFISH pharmDx are intended for use as an adjunct to the information currently used for estimating prognosis in stage II, node-positive breast cancer patients.

HER2 IQFISH pharmDx is a complete system providing all reagents required to perform 20 FISH assays. This includes pre-treatment reagents, *HER2* and CEN-17 reference chromosome 17 probe mix in IQISH hybridization buffer, buffers and mounting medium. A standard validated procedure and validated interpretation guidelines are also provided.

HER2 IQFISH pharmDx, Code K5731, is CE marked and FDA approved.



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx, Code K5731. Tumor cells show HER2 gene amplification.



Gastric cancer (FFPE) stained with HER2 IQFISH pharmDx, Code K5731. Tumor cells show HER2 gene amplification.

Features

Turnaround time

- Less than 4 hours total protocol
- Run FISH simultaneously with IHC
- Solve urgent cases fast
- Easy planning improves workflow

Non-toxic solution

- Safer work environment
- No need for hybridization in fume hoods
- Flexible planning

Excellent quality

- Crisp and clear dual fluorescent signals
- Robust and easy protocol
- Accurate answer, first time
- Accurate answer, every time

Easy protocol

- Easy protocol improves workflow
- Optional batch pepsin treatment for high throughput

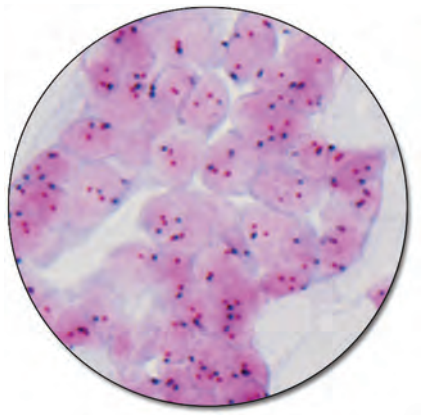
HER2 CISH pharmDx Kit

CE SK109 20 tests

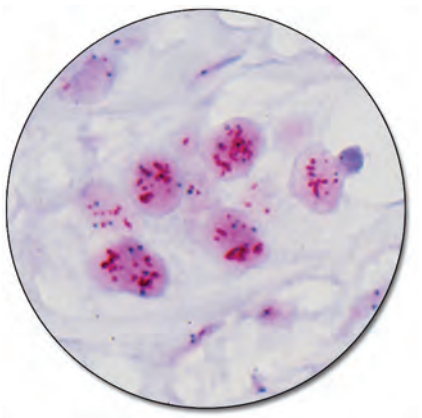
HER2 CISH pharmDx Kit is a dual color chromogenic assay designed to quantitatively determine *HER2* gene amplifications in formalin-fixed, paraffin-embedded breast cancer tissue specimens using bright field microscopy. Gene amplification is determined from the ratio between the number of signals from the visualization of the *HER2* gene probe (red signals) and the number of signals from the reference chromosome 17 probe (blue signals).

HER2 CISH pharmDx Kit is indicated as an aid in the assessment of patients for whom Herceptin™ treatment is being considered. Results from the *HER2* CISH pharmDx are intended for use as an adjunct to the information currently used for estimating prognosis in stage II, node-positive breast cancer patients.
HER2 CISH pharmDx Kit is a complete system providing all reagents required to perform 20 CISH assays. This includes pre-treatment reagents, *HER2* and reference chromosome 17 probe mix, peroxidase mix, CISH antibody mix, red and blue chromogens, substrate buffers and mounting media. A standard validated procedure and validated interpretation manual are also provided.

HER2 CISH pharmDx Kit, Code SK109, is CE marked and FDA approved.



Breast carcinoma (FFPE) with non-amplified HER2 gene status stained with HER2 CISH pharmDx Kit, Code SK109.



Breast carcinoma (FFPE) with amplified HER2 gene status stained with HER2 CISH pharmDx Kit, Code SK109.

Features

Chromogenic dual color visualization

- Allows fast and convenient method for scoring
- Improves scoring ratios accuracy due to counting both *HER2* gene signals and centromere signals in the same cells on one slide
- Distinguishes true gene amplifications or deletions from chromosomal aneuploidy

Preservation of morphology

- Enables easy and fast identification of invasive tissue and internal control

Interpretation by bright field microscopy

- Saves the expense and the required use of a fluorescence microscope
- Stained sections can be stored at room temperature without loss of signals
- Provides the opportunity to archive and re-evaluate at any time

TOP2A IQFISH pharmDx Kit

Type II topoisomerases are essential enzymes that play important roles in fundamental nuclear processes such as DNA replication and recombination. The *TOP2A* gene is approximately 30 kb in size and encodes a 170 kDa protein. The TOP2A protein has been recognized as a proliferation marker and is expressed in proliferating cells and in numerous human malignant tumors, including colon, gastric and breast cancer, lymphomas and others. Type II topoisomerases are the targets for anticancer drugs, such as the topoisomerase II inhibitor therapies like the anthracyclines Doxorubicin and Epirubicin.

IQFISH – One day turnaround time for FISH

When it comes to cancer diagnosis, time is everything. The time required to run tests can restrict the laboratory's workflow and delay results from being handed over to the pathologist. Time is one of the key parameters of successful laboratory operations. Of course, laboratory professionals do everything they can to speed up operations, but they always reach a point where there is nothing more they can do. But now they can.

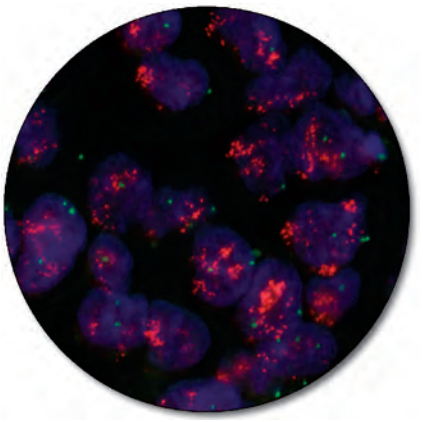
***TOP2A* IQFISH pharmDx**		
CE	K5733	20 tests

TOP2A IQFISH pharmDx is a direct fluorescence in situ hybridization (FISH) assay based on Dako's new fast IQISH hybridization buffer chemistry. The new IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 60-120 minutes. The short hybridization time results in a turnaround time of about 3½ hours for a complete FISH staining from deparaffinization to mounting.

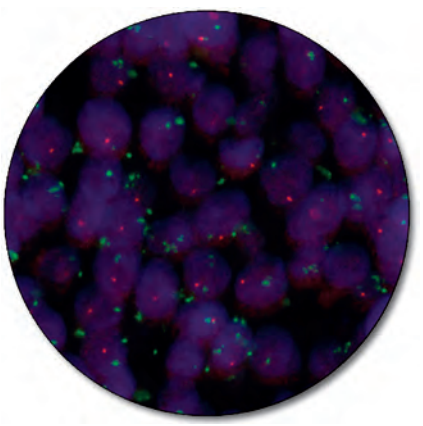
TOP2A IQFISH pharmDx is designed to detect amplifications and deletions (copy number changes) of the *TOP2A* gene using fluorescence in situ hybridization (FISH) technique on formalin-fixed, paraffin-embedded human breast cancer tissue specimens.
Deletions and amplifications of the *TOP2A* gene serve as markers for poor prognosis in high-risk breast cancer patients. *TOP2A* gene amplification detected by the *TOP2A* IQFISH pharmDx is further indicated as an aid to predict recurrence-free and overall survival in high-risk breast cancer patients treated with adjuvant epirubicin-based chemotherapy.

Results from the *TOP2A* IQFISH pharmDx are intended for use as an adjunct to existing clinical and pathological information. Topoisomerase IIα is a key enzyme involved in DNA replication and is the molecular target for topoisomerase II inhibitor therapies. Clinical research shows that the *TOP2A* gene can be used as a predictive indicator of susceptibility or resistance to anthracycline therapies (1-3).

References:
1. Tanner M, Isola J, Wiklund T, Erikstein B, Kellokumpu-Lehtinen P, Malmstrom P, et al. Topoisomerase IIalpha gene amplification predicts favorable treatment response to tailored and dose-escalated anthracycline-based adjuvant chemotherapy in HER-2/neu-amplified breast cancer: Scandinavian Breast Group Trial 9401. J Clin Oncol 2006;24:2428-36.
2. O'Malley FP, Chia S, Tu D, Shepherd LE, Levine MN, Bramwell VH, et al. Topoisomerase II alpha and responsiveness of breast cancer to adjuvant chemotherapy. J Natl Cancer Inst 2009;101:644-50.
3. Jørgensen JT, Nielsen KV, Ejlertsen B. Pharmacodiagnostics and targeted therapies - A rational approach for individualizing medical anticancer therapy in breast cancer. Oncologist 2007;12:397-405.



Breast carcinoma (FFPE) stained with TOP2A IQFISH pharmDx, Code K5733. Tumor cells show TOP2A gene amplification.



Breast carcinoma (FFPE) stained with TOP2A IQFISH pharmDx, Code K5733. Tumor cells show TOP2A gene deletion.

Features

Turnaround time

- Less than 4 hours total protocol
- Run FISH simultaneous with IHC
- Solve urgent cases fast
- Easy planning improves workflow

Non-toxic solution

- Safer work environment
- No need for hybridization in fume hoods
- Flexible planning

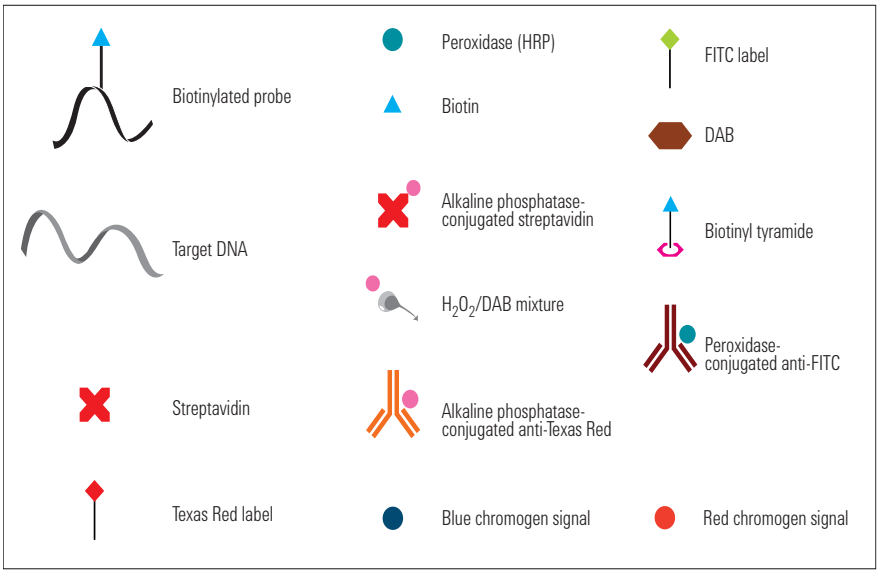
Excellent quality

- Crisp and clear dual fluorescent signals
- Robust and easy protocol
- Correct answer, first time
- Correct answer, every time

Easy protocol

- Easy protocol improves workflow
- Optional batch pepsin treatment for high throughput

Molecular Pathology


Biotinylated probe
Target DNA
Streptavidin
Texas Red label
Peroxidase (HRP)
Biotin
Alkaline phosphatase-conjugated streptavidin
H_2O_2/DAB mixture
Alkaline phosphatase-conjugated anti-Texas Red
Blue chromogen signal
FITC label
DAB
Biotinyl tyramide
Peroxidase-conjugated anti-FITC
Red chromogen signal

Introduction to Molecular Pathology

A Complete FISH Run in Just 4 Hours

The recently introduced Dako technology* completely changed the rules of in situ hybridization. The IQFISH pharmDx kits build on a strong history of Dako assays. And now, for the first time ever, laboratory professionals can run DNA-based hybridization assays in a timeframe comparable to protein-based immunohistochemistry assays.

The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed outside a fume hood in just 60-120 minutes. The short hybridization time results in a turnaround time of about 4 hours for a complete FISH staining from deparaffinization to mounting. This probe is now available for Dako Omnis as *HER2* IQFISH pharmDx (Dako Omnis), enabling you to fully automate your *HER2* gene assay.

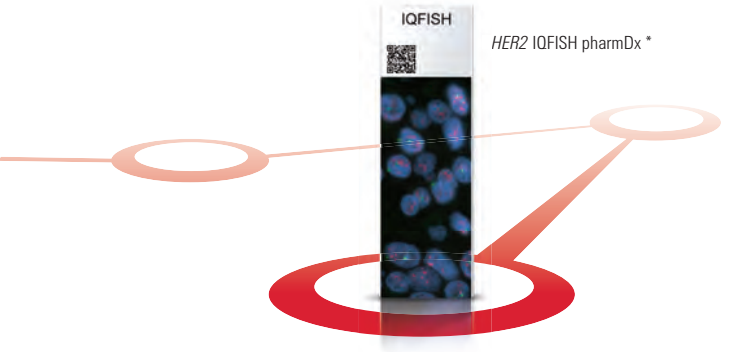
* Patents pending

Instant Quality FISH. The name says it all.

The new IQ buffer from Dako completely changes the rules of in situ hybridization.

Improved overall staining quality:

- Accurate quantification
- Easy identification of cancer cells
- Crisp and clear signals



* Now also available for Dako Omnis.

SureFISH* - The Next Generation FISH Technology

Fluorescence in situ hybridization (FISH) is a laboratoy procedure in which fluorescently labeled DNA fragments (the FISH probe) hybridize to complementary DNA sequences in the cell's nucleus. The resulting fluorescent signals are visualized using a microscope and indicate the presence and localization of one or more targeted DNA sequences.

- **Brightness:** New oligo design algorithm and labeling chemistry enable brighter probes compared to competing BAC FISH probes
- **Background:** Oligo FISH probes target regions that are repeat free, enabling low background and minimal cross hybridization

Oligonucleotide-Based FISH Probes

The unique SureFISH DNA FISH probes are designed in silico and chemically synthesized using the company's high-fidelity, oligonucleotide library synthesis (OLS) technology. This eliminates the limitations of FISH probes manufactured with bacterial artificial chromosome (BAC) technology.

- **Balance:** Oligo FISH technology provides total flexibility on size of targeted region and number of oligos, enabling optimal signal balance between child probes
- **Co-localized:** Unique micro-gap design leads to tight co-localization of child probes, enabling quick and accurate analysis

* SureFISH probes are manufactured by Agilent Technologies, Inc.

Hybridizer Instrument

Hybridizer			
CE	S2450	110-120 volt*	1 unit
CE	S2451	200-240 volt**	1 unit

Hybridizer is a hands-free co-denaturation and hybridization instrument designed for slide-based fluorescence (FISH) and chromogenic (CISH) in situ hybridization. The system reduces the manual steps, and improves the efficiency, throughput and precision compared to manually performed conventional ISH procedures. Hybridizer has a 12-slide capacity and heats and cools the slides through two temperature ranges with short ramp times. The system is easy to program for a wide range of protocols and is optimized for Dako DNA and PNA probes for FISH and CISH.

Hybridizer Humidity Control Strips			
CE	S2452	For the Hybridizer instrument	20 strips

Hybridizer Humidity Control Strips are specially designed for the Hybridizer instrument, and ensure a controlled high humidity during the in situ hybridization procedure. The strips consist of a special hydrophilic polymer fibre material with high surface area and the ability to quickly adsorb and desorb moisture. The strips should be replaced frequently, every 1-2 weeks, as the performance deteriorates over time and with use.

Hardware Specifications

Slide capacity	Up to 12 slides per run
Program capacity	Up to 40 programs (names and numbers)
Program types	Denaturation and hybridization Hybridization only Fixed temperature
Humidity control system	Hydrophobic polymer fiber system
Temperature uniformity	+/- 1 °C or better
Denaturation temperature	50-99 °C, 0-30 minutes.
Hybridization temperature	Room temperature, 30-70 °C, 0-99 hours
Fixed temperature	Room temperature, 30-99 °C, 0-99 hours
Ramp time	37-95 °C in less than 1 minute
Cooling time	95-45 °C in less than 6 minutes
Dimensions	9" W x 6" D x 5" H (22.8 cm W x 40.6 cm D x 12.7 cm H)
Weight	18 lbs (8 kg)
Ambient operating temperature	15-40 °C
Pre-set voltage	100-120 V or 220-240 V
Frequency	50-60 Hz

* Not available in the EU
** Not available in the United States

CISH and FISH Kits

In situ hybridization techniques are used to localize specific nucleic acid sequences within the DNA in cells in tissues or cytological preparations, on chromosomes, or in whole mounts. Development of non-radioactive probes and detection systems has made the ISH technology available to a wide variety of routine applications. We have developed kits for both FISH and CISH applications.

The IQFISH technology* reduces the hybridization time from 14-20 hours to 1-2 hours. The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 60-120 minutes. The short hybridization time results in a turnaround time of about 4 hours for a complete FISH staining from deparaffinization to mounting.

* Patents pending

Overview of Dako FISH and CISH Kits

FISH Kits

HER2 **IQFISH pharmDx(20 tests), Code K5731**
• Pre-treatment Solution (20x)
• Pepsin, ready-to-use
• Pepsin Diluent (10x)
• ***HER2/*****CEN-17 Probe Mix in IQISH buffer**
• Stringent Wash Buffer (20x)
• Wash Buffer (20x)
• Fluorescence Mounting Medium, containing DAPI
• Coverslip Sealant

TOP2A **IQFISH pharmDx (20 tests), Code K5733**
• Pre-treatment Solution (20x)
• Pepsin, ready-tu-use
• Pepsin Diluent (10x)
• ***TOP2A/*****CEN-17 Probe Mix in IQISH buffer**
• Stringent Wash Buffer (20x)
• Wash Buffer (20x)
• Fluorescence Mounting Medium, containing DAPI
• Coverslip Sealant

CISH Kits

HER2 **CISH pharmDx Kit (20 tests), Code SK109**
• Pre-treatment Solution (20x)
• Pepsin, ready-to-use
• ***HER2/*****CEN-17 Probe Mix**
• Stringent Wash Buffer (20x)
• Peroxidase Block
• **CISH Antibody Mix**
• Red and Blue Chromogens
• Red and Blue Substrate Buffers
• Wash Buffer (20x) and Wash Buffer (10x)
• CISH Mounting medium
• Coverslip Sealant

Dako DuoCISH (20 tests), Code SK108
• Peroxidase Block
• **CISH Antibody Mix**
• Red and Blue Chromogens
• Red and Blue Substrate Buffers

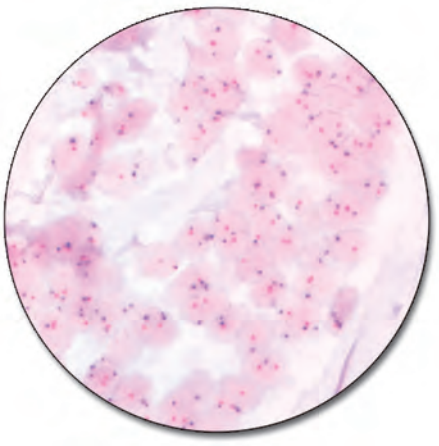
Accessory Kits

Histology FISH Accessory Kits (20 tests), Code K5799
• Pre-treatment Solution (20x)
• Pepsin, ready-to-use
• Pepsin Diluent (10x)
• Stringent Wash Buffer (20x)
• Wash Buffer (20x)
• Fluorescence Mounting Medium, containing DAPI
• Coverslip Sealant

Cytology FISH Accessory Kits (20 tests), Code K5499
• Stringent Wash Buffer (20x)
• Wash Buffer (20x)
• Fluorescence Mounting Medium, containing DAPI
• Coverslip Sealant

Dako DuoCISH Kit

Automated Dual Color CISH Visualization
Dako DuoCISH is a double staining chromogenic in situ hybridization kit for evaluation by bright field microscopy. Dako DuoCISH is optimized for dual color chromogenic visualization of signals obtained with Dako Texas Red and FITC-labeled FISH probes designed for detection of gene amplifications, deletions and translocations.



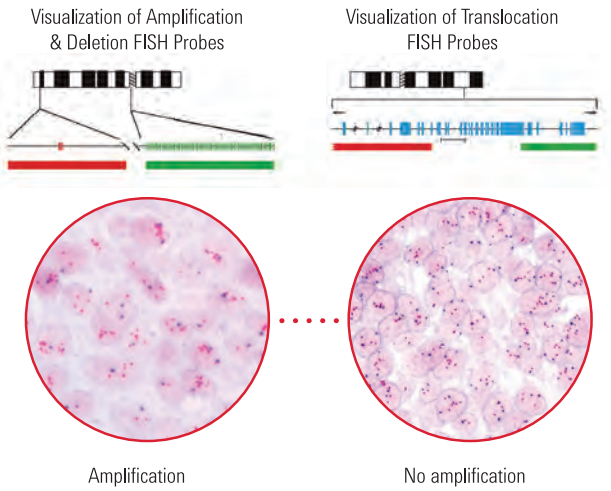
Dako DuoCISH			
CE	SK108	For chromogenic in situ hybridization	20 tests

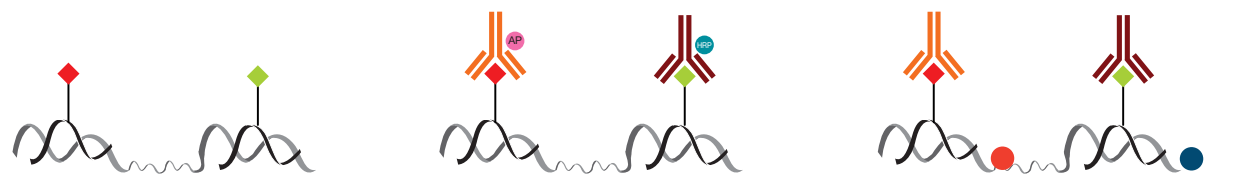
Chromogenic dual color visualization on one slide
- Allows fast and convenient method for scoring
- Improves scoring ratios accuracy due to counting both target gene signals and centromere signals in the same cells on one slide
- Distinguishes true gene amplifications or deletions from chromosomal aneuploidy

Interpretation by bright field microscopy
- Saves the expense and the required use of a fluorescence microscope

Preservation of morphology
- Enables easy and fast identification of invasive tissue and internal control

Stained sections stored at room temperature
- Provides the opportunity to archive and re-evaluate ISH cases without loss of signals





Hybridization of Texas Red and FITC-labeled FISH probes.

Incubation with CISH Antibody Mix (Anti-Texas Red/AP and Anti-FITC/HRP).

Incubation with red chromogen substrate followed by blue chromogen substrate.

HER2 pharmDx Kits

The human *HER2* gene with the generic name *ERBB2* (also known as *NEU*) encodes the HER2 protein or p185^{HER2}. The HER2 protein is a membrane receptor tyrosine kinase with homology to the epidermal growth factor receptor (EGFR). The *HER2* gene is a normal component present in two copies in all normal diploid cells.

Breast Cancer

In a fraction of patients (20-25%) with breast cancer, the *HER2* gene is amplified as a part of the process of malignant transformation and tumor progression.

HER2 gene amplification and receptor prevalence correlates with poor breast cancer prognosis, including relapse-free and overall survival.

The recombinant, humanized monoclonal antibody Herceptin™ was rationally developed to specifically target HER2-positive breast cancers. Demonstration of high HER2 overexpression or gene amplification is essential for treatment with Herceptin™. Clinical studies have shown that patients whose tumors have high HER2 receptor overexpression and/or amplification benefit most from Herceptin™ (1).

Gastric Cancer

A number of studies have analysed HER2 overexpression in gastric cancer; one has reported 24% of patients with gastroesophageal adenocarcinomas as showing overexpression of HER2 (2).

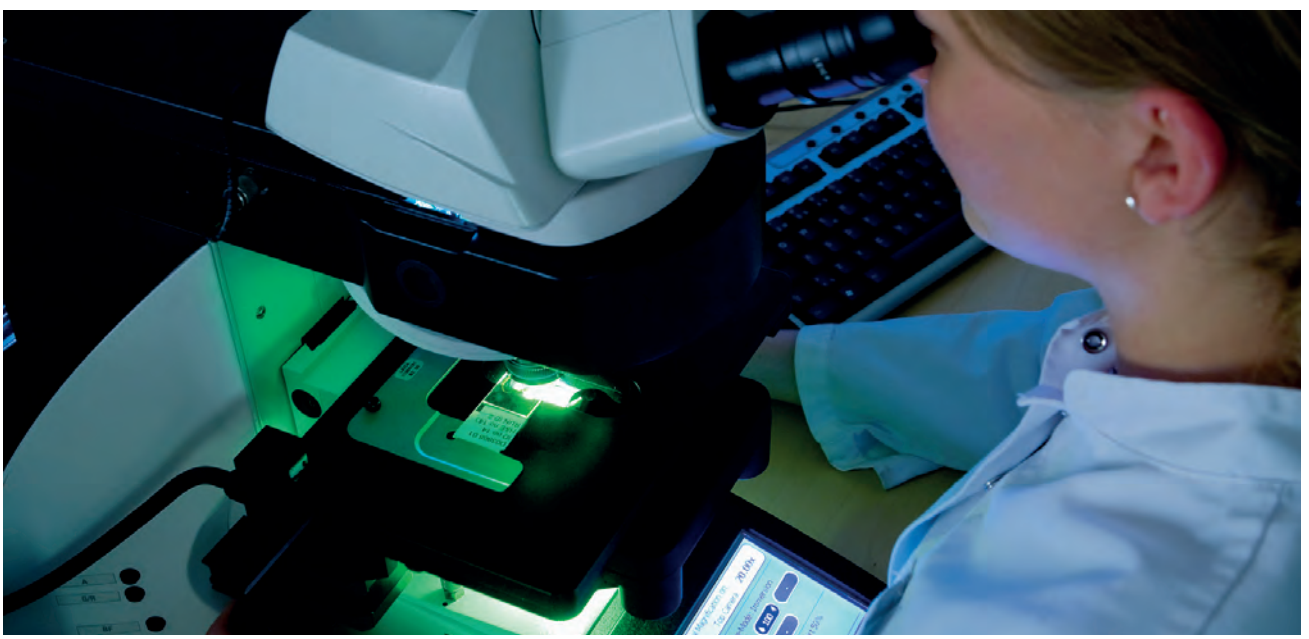
Pre-clinical data has showed that trastuzumab has significant antitumor activity in gastric cancer (3). This finding has prompted the investigation of the potential clinical benefit of trastuzumab in this type of cancer. The results from the phase III trial (ToGA), where both HercepTest and *HER2* FISH pharmDx were used as initial screening tests, showed the added benefit of combining Herceptin™ with standard chemotherapy (4).

Kits

HER2 IQFISH pharmDx is an FDA-approved Dako HER2 diagnostic kit indicated as an aid in the assessment of patients for whom Herceptin™ treatment is considered.

HER2 CISH pharmDx Kit is an FDA-approved HER2 diagnostic kit combining the genetic information from FISH with the interpretation advantages of CISH.

References:
1. Bilous M, Dowsett M, Hanna W, Isola J, Lebeau A, Moreno A, et al. Current perspectives on HER2 testing: a review of national testing guidelines. Mol Pathol 2003;16:173-82.
2. Tanner M, Hollmén M, Junttila TT, Kapanen AI, Tommola S, Soini Y, et al. Amplification of *HER-2* in gastric carcinoma: association with *Topoisomerase IIα* gene amplification, intestinal type, poor prognosis and sensitivity to trastuzumab. Ann Oncol 2005;16:273-8.
3. Fujimoto-Ouchy K, Sekiguchi F, Yasuno H, Moriya Y, Mori K, Tanaka Y. Antitumor activity of trastuzumab in combination with chemotherapy in human gastric cancer xenograft models. Cancer Chemother Pharmacol 2007;59:795-805.
4. Van Cutsem E, Kang Y, Chung H, et al. Efficacy results from the ToGA trial: a phase III study of trastuzumab added to standard chemotherapy (CT) in first-line human epidermal growth factor receptor 2 (HER2)-positive advanced gastric cancer (GC). J Clin Oncol 2009;18S:Abstract LBA4509.



HER2 pharmDx Kits (continued)

IQFISH – One-day turnaround time automated on Dako Omnis

The IQFISH assay allows same-day return on diagnoses, a breakthrough that allows pathologists to make quick diagnoses and help oncologists provide treatment decisions for cancer patients. Pathology labs now have the option to simultaneously stain IHC and ISH slides, load by patient case, and process multiple FISH slides in just a few hours. *HER2* IQFISH is the first of many probe launches to come on Dako Omnis, all of which will be in IQFISH quality.

HER2 IQFISH pharmDx (Dako Omnis)

CE GM333 Ready-to-use 20 tests, 1.6 mL

HER2 IQFISH pharmDx (Dako Omnis) is the hybridization probe for the automated direct fluorescence in situ hybridization (FISH) assay onboard Dako Omnis instruments. It consists of a *HER2* and CEN-17 probe mix in IQISH hybridization buffer and is provided in a ready-to-use vial for the Dako Omnis instrument. The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 75 minutes on the Dako Omnis instrument. The short hybridization time results in a turnaround time of less than 4 hours for a complete FISH staining from deparaffinization to mounting.

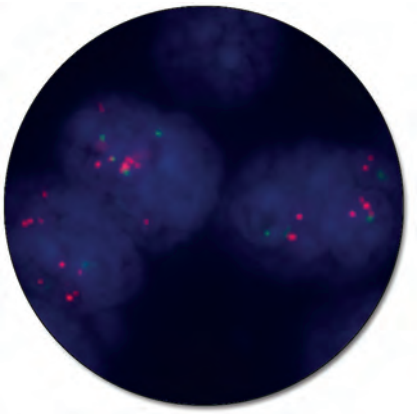
HER2 IQFISH pharmDx (Dako Omnis) is, together with accessory reagent devices, designed to quantitatively determine *HER2* gene amplification in formalin-fixed, paraffin-embedded (FFPE) breast cancer tissue specimens and FFPE specimens from patients with adenocarcinoma of the stomach including gastroesophageal junction.

Gene amplification is determined from the ratio between the number of signals from the hybridization of the *HER2* gene probe (red signals) and the number of signals from the hybridization of the CEN-17 reference chromosome 17 probe (green signals).

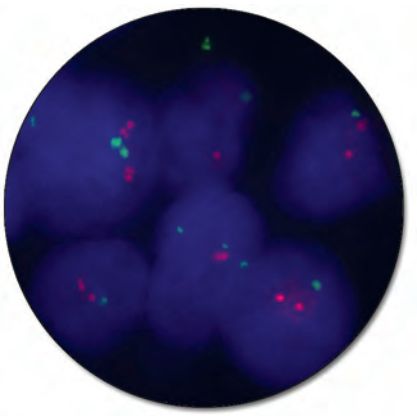
HER2 IQFISH pharmDx (Dako Omnis) is indicated in adjunction to HercepTest in the assessment of patients for whom Herceptin™ (trastuzumab) treatment is being considered.

For breast cancer patients, results from *HER2* IQFISH pharmDx (Dako Omnis) are intended for use as an adjunct to the clinicopathologic information currently used for estimating prognosis in stage II, node-positive breast cancer patients.

HER2 IQFISH pharmDx (Dako Omnis), Code GM333, is CE marked.



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx (Dako Omnis), Code GM333. Tumor cells show HER2 gene amplification.



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx (Dako Omnis), Code GM333. Cells show HER2 gene non-amplification.

Accessory reagents to be used together with _HER2_ IQFISH pharmDx (Dako Omnis):

Product Name	Code
Dako Omnis ISH Lid	GC102
Dako Omnis Mixing Device	GC116
Fluorescence Mounting Medium (Dako Omnis)	GM304
ISH Ethanol Solution, 96% (Dako Omnis)	GM300
ISH Pepsin (Dako Omnis)	GM302
ISH Pre-Treatment Solution (20x) (Dako Omnis)	GM301
ISH Stringent Wash Buffer (20x) (Dako Omnis)	GM303
ISH Cleaning Solution (Dako Omnis)	GC207

HER2 pharmDx Kits (continued)

HER2 IQFISH pharmDx™

CE K5731 20 tests

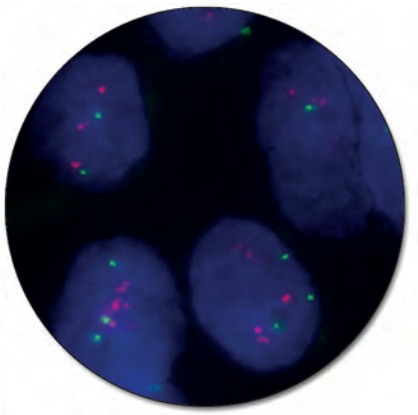
HER2 IQFISH pharmDx is a direct fluorescence in situ hybridization (FISH) assay based on Dako's new fast IQISH hybridization buffer chemistry. The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 60-120 minutes. The short hybridization time results in a turnaround time less than 4 hours for a complete FISH staining from deparaffinization to mounting.

HER2 IQFISH pharmDx is designed to quantitatively determine *HER2* gene amplification in formalin-fixed, paraffin-embedded (FFPE) breast cancer tissue specimens and FFPE specimens from patients with adenocarcinoma of the stomach, including gastro-esophageal junction. *HER2* IQFISH pharmDx with the indication adenocarcinoma of the stomach, including the gastro-esophageal junction, is not available in selected markets. Gene amplification is determined from the ratio between the number of signals from the hybridization of the *HER2* gene probe (red signals) and the number of signals from the hybridization of the CEN-17 reference chromosome 17 probe (green signals).

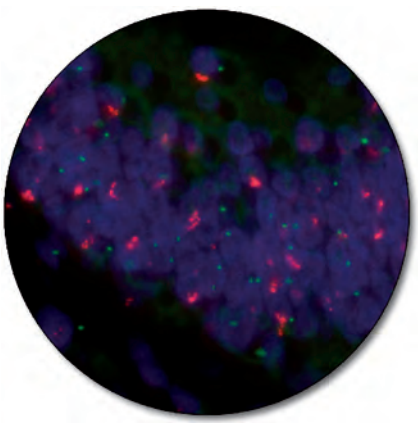
HER2 IQFISH pharmDx is indicated as an aid in the assessment of patients for whom Herceptin™ treatment is being considered. Results from the *HER2* IQFISH pharmDx are intended for use as an adjunct to the information currently used for estimating prognosis in stage II, node-positive breast cancer patients.

HER2 IQFISH pharmDx is a complete system providing all reagents required to perform 20 FISH assays. This includes pre-treatment reagents, *HER2* and CEN-17 reference chromosome 17 probe mix in IQISH hybridization buffer, buffers and mounting medium. A validated procedure and validated interpretation guidelines are also provided.

HER2 IQFISH pharmDx, Code K5731, is CE marked and FDA approved.



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx, Code K5731. Tumor cells show HER2 gene amplification.



Gastric cancer (FFPE) stained with HER2 IQFISH pharmDx, Code K5731. Tumor cells show HER2 gene amplification.

Features

Turnaround time

- Less than 4 hours total protocol
- Run FISH simultaneous with IHC
- Solve urgent cases fast
- Easy planning improves workflow

Non-toxic solution

- Safer work environment
- Hybridization outside a fume hood
- Flexible planning

Excellent quality

- Crisp and clear dual fluorescent signals
- Robust and easy protocol
- Correct answer, first time
- Correct answer, every time

Easy protocol

- Easy protocol improves workflow
- Optional batch pepsin treatment for high throughput

HER2 pharmDx Kits (continued)

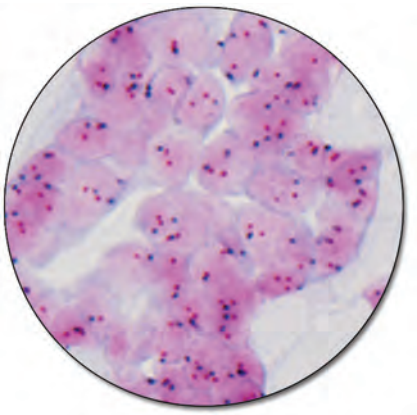
HER2 CISH pharmDx Kit

CE SK109 20 tests

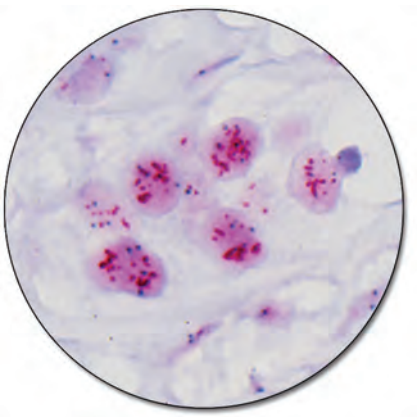
HER2 CISH pharmDx Kit is a dual color chromogenic assay designed to quantitatively determine *HER2* gene amplifications in formalin-fixed, paraffin-embedded breast cancer tissue specimens using bright field microscopy. Gene amplification is determined from the ratio between the number of signals from the visualization of the *HER2* gene probe (red signals) and the number of signals from the reference chromosome 17 probe (blue signals).

HER2 CISH pharmDx Kit is indicated as an aid in the assessment of patients for whom Herceptin™ treatment is being considered. Results from the *HER2* CISH pharmDx are intended for use as an adjunct to the information currently used for estimating prognosis in stage II, node-positive breast cancer patients.
HER2 CISH pharmDx Kit is a complete system providing all reagents required to perform 20 CISH assays. This includes pre-treatment reagents, *HER2* and reference chromosome 17 probe mix, peroxidase mix, CISH antibody mix, red and blue chromogens, substrate buffers and mounting media. A standard validated procedure and validated interpretation manual are also provided.

HER2 CISH pharmDx Kit, Code SK109, is CE marked and FDA approved.



Breast carcinoma (FFPE) with non-amplified HER2 gene status stained with HER2 CISH pharmDx Kit, Code SK109.



Breast carcinoma (FFPE) with amplified HER2 gene status stained with HER2 CISH pharmDx Kit, Code SK109.

Features

Chromogenic dual color visualization

- Allows fast and convenient method for scoring
- Improves scoring ratios accuracy due to counting both *HER2* gene signals and centromere signals in the same cells on one slide
- Distinguishes true gene amplifications or deletions from chromosomal aneuploidy

Preservation of morphology

- Enables easy and fast identification of invasive tissue and internal control

Interpretation by bright field microscopy

- Saves the expense and the required use of a fluorescence microscope
- Stained sections can be stored at room temperature without loss of signals
- Provides the opportunity to archive and re-evaluate at any time

TOP2A IQFISH pharmDx Kit

Type II topoisomerases are essential enzymes that play important roles in fundamental nuclear processes such as DNA replication and recombination. The *TOP2A* gene is approximately 30 kb in size and encodes a 170 kDa protein. The TOP2A protein has been recognized as a proliferation marker and is expressed in proliferating cells and in numerous human malignant tumors, including colon, gastric and breast cancer, lymphomas and others. Type II topoisomerases are the targets for anticancer drugs, such as the topoisomerase II inhibitor therapies like the anthracyclines Doxorubicin and Epirubicin.

IQFISH – One day turnaround time for FISH

When it comes to cancer diagnosis, time is everything. The time required to run tests can restrict the laboratory's workflow and delay results from being handed over to the pathologist. Time is one of the key parameters of successful laboratory operations. Of course, laboratory professionals do everything they can to speed up operations, but they always reach a point where there is nothing more they can do. But now they can.

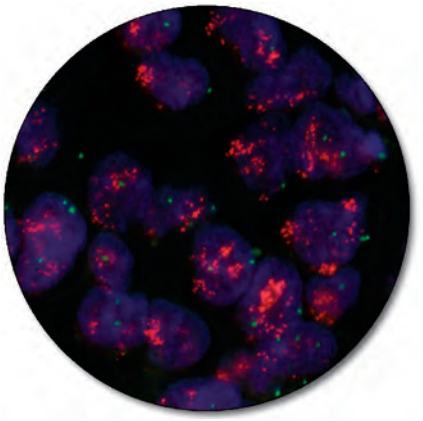
***TOP2A* IQFISH pharmDx**		
CE	K5733	20 tests

TOP2A IQFISH pharmDx is a direct fluorescence in situ hybridization (FISH) assay based on Dako's new fast IQISH hybridization buffer chemistry. The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 60-120 minutes. The short hybridization time results in a turnaround time of about 3½ hours for a complete FISH staining from deparaffinization to mounting.

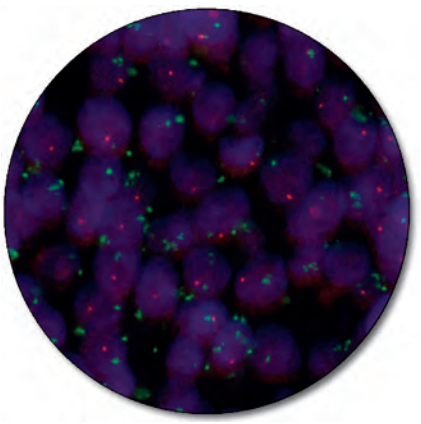
TOP2A IQFISH pharmDx is designed to detect amplifications and deletions (copy number changes) of the *TOP2A* gene using fluorescence in situ hybridization (FISH) technique on formalin-fixed, paraffin-embedded human breast cancer tissue specimens.
Deletions and amplifications of the *TOP2A* gene serve as markers for poor prognosis in high-risk breast cancer patients. *TOP2A* gene amplification detected by the *TOP2A* IQFISH pharmDx is further indicated as an aid to predict recurrence-free and overall survival in high-risk breast cancer patients treated with adjuvant epirubicin-based chemotherapy.

Results from the *TOP2A* IQFISH pharmDx are intended for use as an adjunct to existing clinical and pathological information. Topoisomerase IIα is a key enzyme involved in DNA replication and is the molecular target for topoisomerase II inhibitor therapies. Clinical research shows that the *TOP2A* gene can be used as a predictive indicator of susceptibility or resistance to anthracycline therapies (1-3).

References:
1. Tanner M, Isola J, Wiklund T, Erikstein B, Kellokumpu-Lehtinen P, Malmstrom P, et al. Topoisomerase IIalpha gene amplification predicts favorable treatment response to tailored and dose-escalated anthracycline-based adjuvant chemotherapy in HER-2/neu-amplified breast cancer: Scandinavian Breast Group Trial 9401. J Clin Oncol 2006;24:2428-36.
2. O'Malley FP, Chia S, Tu D, Shepherd LE, Levine MN, Bramwell VH, et al. Topoisomerase II alpha and responsiveness of breast cancer to adjuvant chemotherapy. J Natl Cancer Inst 2009;101:644-50.
3. Jørgensen JT, Nielsen KV, Ejlertsen B. Pharmacodiagnostics and targeted therapies - A rational approach for individualizing medical anticancer therapy in breast cancer. Oncologist 2007;12:397-405.



Breast carcinoma (FFPE) stained with TOP2A IQFISH pharmDx, Code K5733. Tumor cells show TOP2A gene amplification (TOP2A/CEN-17 ratio ≥2).



Breast carcinoma (FFPE) stained with TOP2A IQFISH pharmDx, Code K5733. Tumor cells show TOP2A gene deletion (TOP2A/CEN-17 ratio < 2).

Features

Turnaround time

- Less than 4 hours total protocol
- Run FISH simultaneous with IHC
- Solve urgent cases fast
- Easy planning improves workflow

Non-toxic solution

- Safer work environment
- Hybridization outside a fume hood
- Flexible planning

Excellent quality

- Crisp and clear dual fluorescent signals
- Robust and easy protocol
- Correct answer, first time
- Correct answer, every time

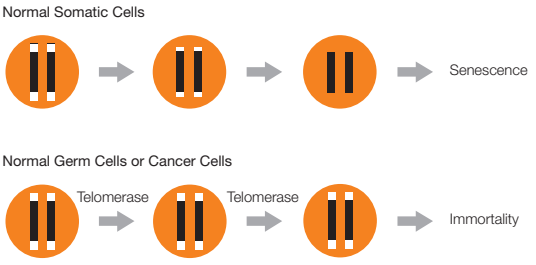
Easy protocol

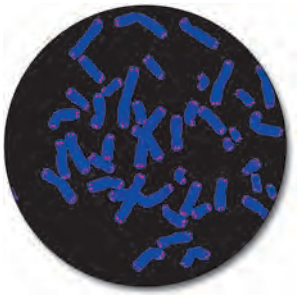
- Easy protocol improves workflow
- Optional batch pepsin treatment for high throughput

Telomere PNA FISH Kits

Telomeres are the physical ends of eukaryotic chromosomes that in vertebrates consist of multiple copies of the sequence TTAGGG. The protective telomeres keep the chromosome ends intact, and thereby protect the underlying genes. In normal somatic cells, the telomere length shortens at each cell division, finally leading to senescence. Some cells maintain their capacity to divide due to the action of the enzyme, telomerase. Examples are germ cells, fetal cells, hematopoietic stem cells, and basal cells of the epidermis. Established tumor cell lines can divide forever and are "immortal" mainly due to reactivation of telomerase. In 80-90% of human primary tumors telomerase is reactivated. Telomerase activity and the preservation of telomere length are, therefore, important for the cancerous process. The genetically determined variation in telomerase activity between individuals makes telomere length measurements relevant for the study of age-related diseases. The telomeres of the individual chromosome arms show heterogeneity in the number of telomeric repeats.

The Telomere PNA FISH Kits are for the detection of human (or other vertebrate) telomere sequences by fluorescence in situ hybridization (FISH) using a fluorochrome-conjugated PNA probe. PNA is superior to DNA in terms of sensitivity and specificity as a coverage of 99-100% can be achieved. The probe does not recognize subtelomeric sequences allowing exact measurement of the telomere length.





Metaphase spread of human lymphocyte stained with Telomere PNA FISH Kit/Cy3, Code K5326.

Telomere PNA FISH Kits

RUO	K5326	Telomere PNA FISH Kit/Cy3	20 tests
RUO	K5325	Telomere PNA FISH Kit/FITC	20 tests

The Telomere PNA FISH Kits provide a convenient, rapid method for detection of the telomeric sequences in metaphase spreads and interphase nuclei in samples from all vertebrate cells. In addition to the fluorochrome-conjugated peptide nucleic acid (PNA) probe, the kits contain pre-treatment solution, rinse solution, wash solution and Tris-buffered saline.

Polyclonal Rabbit Anti-
Fluorescein Isothiocyanate (FITC)

RUO	P5100	HRP. Affinity-isolated F(ab')	0.5 mL

This enzyme-conjugated antibody reacts strongly with free fluorescein and with fluoresceinyl groups. It is very well-suited for the sensitive visualization of targets, such as DNA or RNA that have been hybridized to FITC-labeled nucleic acid or PNA probes.

FISH Probes

Our range of probes aims at the most predominant molecular markers in cancer diagnostics and research. We have successfully introduced the peptide nucleic acid (PNA) probe, a nucleotide analog capable of binding to DNA/RNA in a sequence-specific manner. This increases the affinity of our probes thereby enhancing the visualization. Furthermore, the PNAs are very stable. In clinical experiments no degradation by DNases, RNases, proteinases or peptidases have been observed, ensuring that you recieve optimal test results.

In situ hybridization (ISH) techniques are used to localize specific nucleic acid sequences within the cells of tissues or cytological preparations, on chromosomes, or in whole mounts. Development of non-radioactive probes and detection systems has made this technology available to a wide variety of routine applications.

Split Signal FISH DNA Probes

Split Signal FISH

The split signal fluorescence in situ hybridization (FISH) technique uses two differently labeled DNA-probes flanking each side of a breakpoint region. Consequently, two co-localized yellow (combined green/red) signals will be visible in normal cells, however, a chromosome translocation event will split the co-localized signal, resulting in a separate green and a separate red signal together with a yellow signal from the unaffected chromosome. To diminish background staining, the fluorescence in situ hybridization (FISH) probe mixture also contains unlabeled PNA blocking probes.

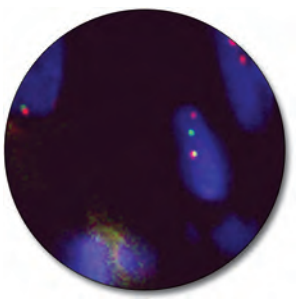
Sub-Deletion Signal FISH

The sub-deletion signal fluorescence in situ hybridization (FISH) technique uses two differently labeled DNA-probes. One probe binds inside the deletion area while the other probe is located outside the deletion area. Consequently, two co-localized yellow (combined green/red) signals will be visible in normal cells, however, a deletion event results in the loss of one red signal from one co-localized signal, thus creating a separate green signal together with a yellow signal from the unaffected chromosome. To diminish background staining, the FISH probe mixture also contains unlabeled PNA blocking probes.

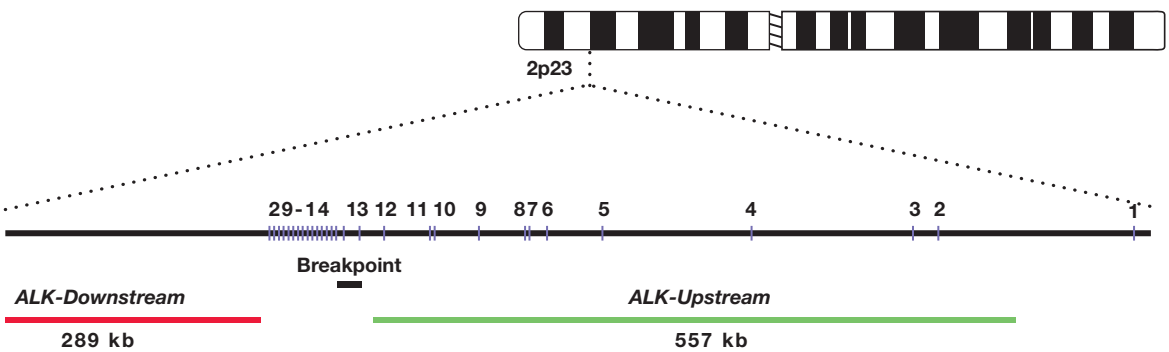
ALK FISH DNA Probe, Split Signal

RUO Y5417 20 tests, 0.2 mL

The human *ALK* gene consists of 29 exons spanning a region of ~728 kb on chromosome 2 band p23. Y5417 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*ALK-Downstream*) covering 289 kb telomeric to the *ALK* breakpoint cluster region and a fluorescein-labeled DNA probe (*ALK-Upstream*) covering 557 kb centromeric to the *ALK* breakpoint cluster region.



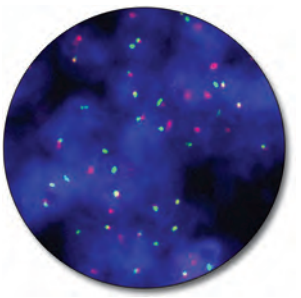
ALK gene translocation. Courtesy of Euro-FISH.



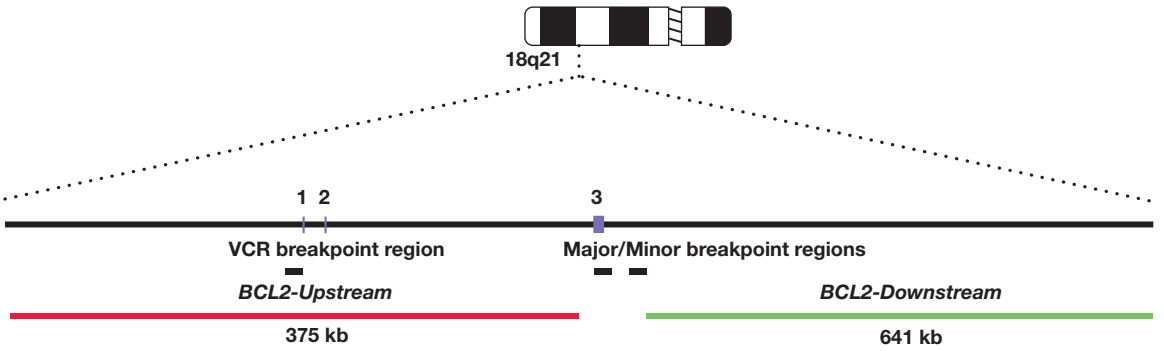
BCL2 FISH DNA Probe, Split Signal

RUO Y5407 20 tests, 0.2 mL

The human *BCL2* gene consists of 3 exons spanning a region of ~195 kb on chromosome 18 band q21. Y5407 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*BCL2-Upstream*) covering 375 kb telomeric to the *BCL2* major/minor breakpoint cluster regions and a fluorescein-labeled DNA probe (*BCL2-Downstream*) covering 641 kb centromeric to the *BCL2* major/minor breakpoint cluster regions.



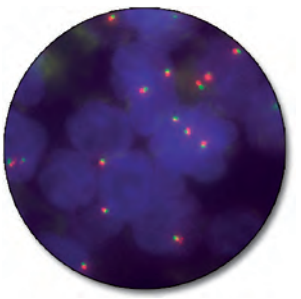
BCL2 gene translocation. Courtesy of Euro-FISH.



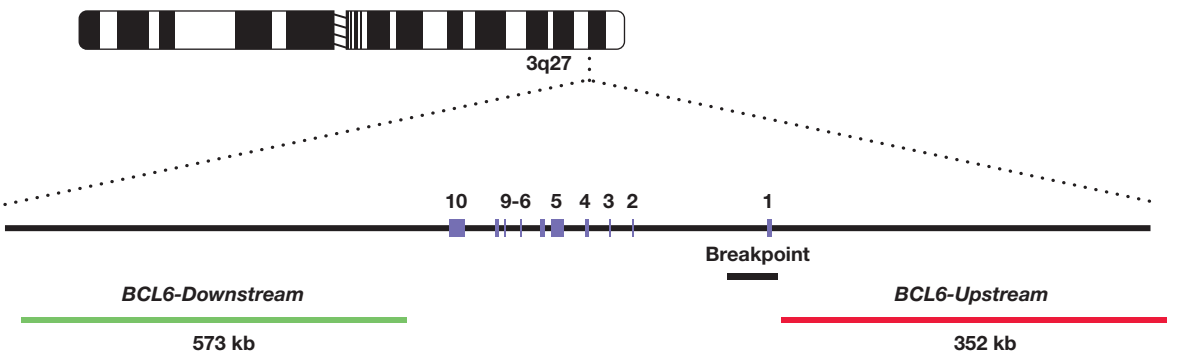
BCL6 FISH DNA Probe, Split Signal

RUO Y5408 20 tests, 0.2 mL

The human *BCL6* gene consists of 10 exons spanning a region of ~24 kb on chromosome 3 band q27. Y5408 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*BCL6-Upstream*) covering 352 kb telomeric to the *BCL6* breakpoint cluster region, and a fluorescein-labeled DNA probe (*BCL6-Downstream*) covering 573 kb centromeric to the *BCL6* breakpoint cluster region.



BCL6 normal tissue. Courtesy of Euro-FISH.



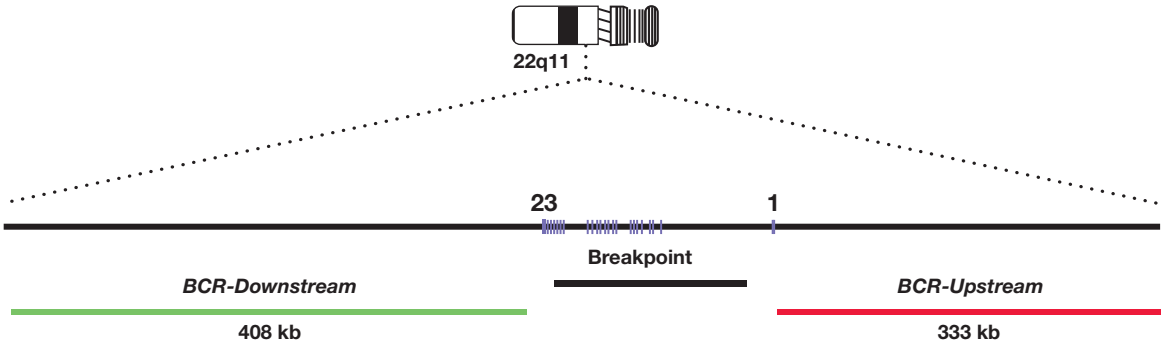
Split Signal FISH DNA Probes (continued)

BCR FISH DNA Probe, Split Signal

CE Y5403 20 tests, 0.2 mL

The human *BCR* gene consists of 23 exons spanning a region of 135 kb on chromosome 22 band q11. Y5403 is a probe mix is based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*BCR-Upstream*) covering 333 kb centromeric to the *BCR* breakpoint cluster region and a fluorescein-labeled DNA probe (*BCR-Downstream*) covering 408 kb telomeric to the *BCR* breakpoint cluster region.

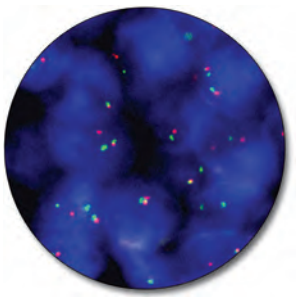
Precursor B-ALL with BCR gene translocation.



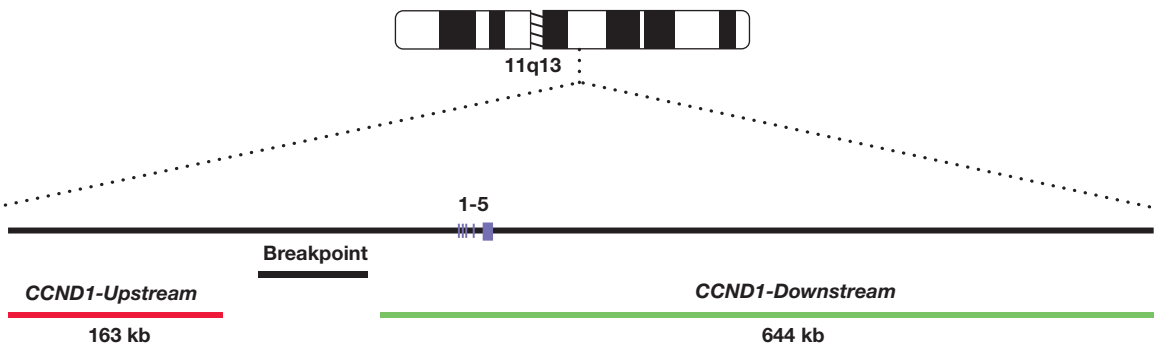
CCND1 FISH DNA Probe, Split Signal

RUO Y5414 20 tests, 0.2 mL

The human *CCND1* gene consists of 5 exons spanning a region of ~13 kb on chromosome 11 band q13. Y5414 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*CCND1-Upstream*) covering 163 kb centromeric to the *CCND1* breakpoint cluster region and a fluorescein-labeled DNA probe (*CCND1-Downstream*) covering 644 kb telomeric to the *CCND1* breakpoint cluster region.



CCND1 gene translocation. Courtesy of Euro-FISH.

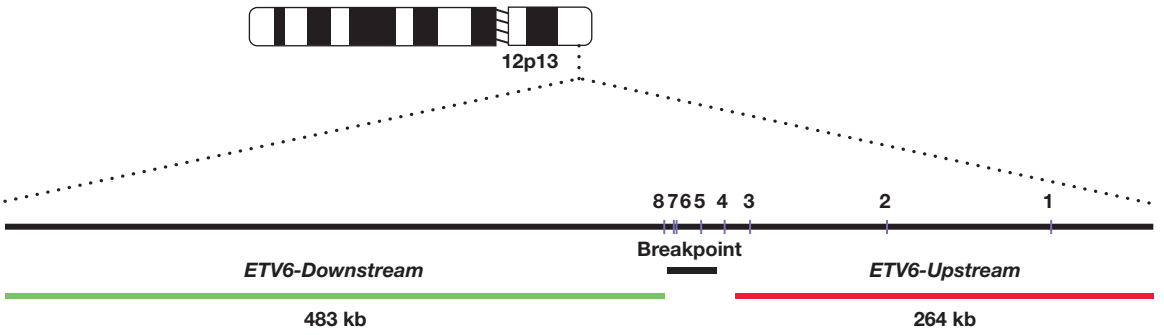


ETV6 FISH DNA Probe, Split Signal

CE Y5400 20 tests, 0.2 mL

The human *ETV6* (*TEL*) gene consists of 8 exons spanning a region of 240 kb on chromosome 12 band p13. Y5400 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*ETV6-Upstream*) covering 264 kb telomeric to the *ETV6* breakpoint cluster region and a fluorescein-labeled DNA probe (*ETV6-Downstream*) covering 483 kb centromeric to the *ETV6* breakpoint cluster region.

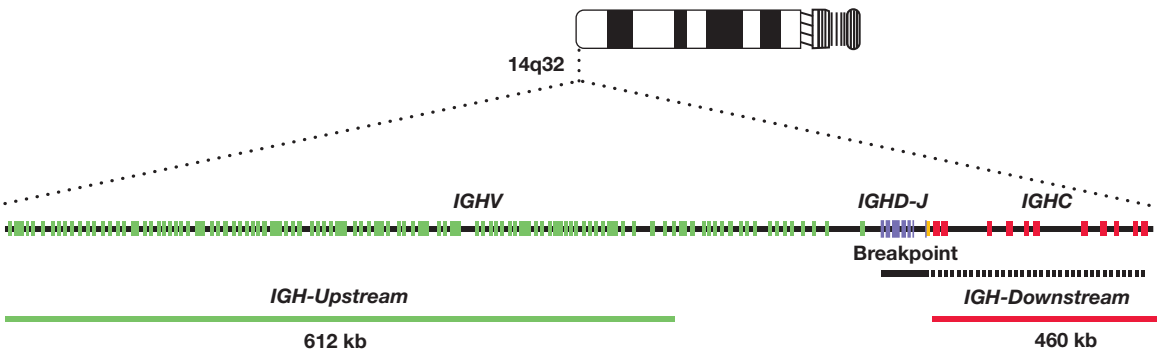
Precursor B-ALL with ETV6 gene translocation (bottom) and without ETV6 gene translocation (top).



IGH FISH DNA Probe, Split Signal

RUO Y5406 20 tests, 0.2 mL

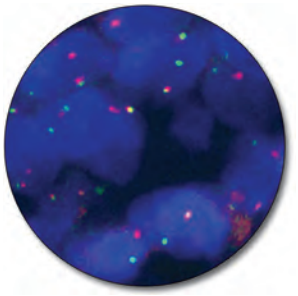
The *IGH* locus at chromosome 14 consists of 170-176 genes. These genes are divided into 123-129 variable (*IGHV*) genes, 27 diversity (*IGHD*) gene segments, 9 joining (*IGHJ*) gene segments, and 11 constant (*IGHC*) genes. The *IGH* locus spans a region of 1.25 Mb on chromosome 14 band q32. Y5406 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*IGH-Downstream*) covering 460 kb centromeric to the *IGH* breakpoint cluster region and a fluorescein-labeled DNA probe (*IGH-Upstream*) covering 612 kb telomeric to the *IGH* breakpoint cluster region.



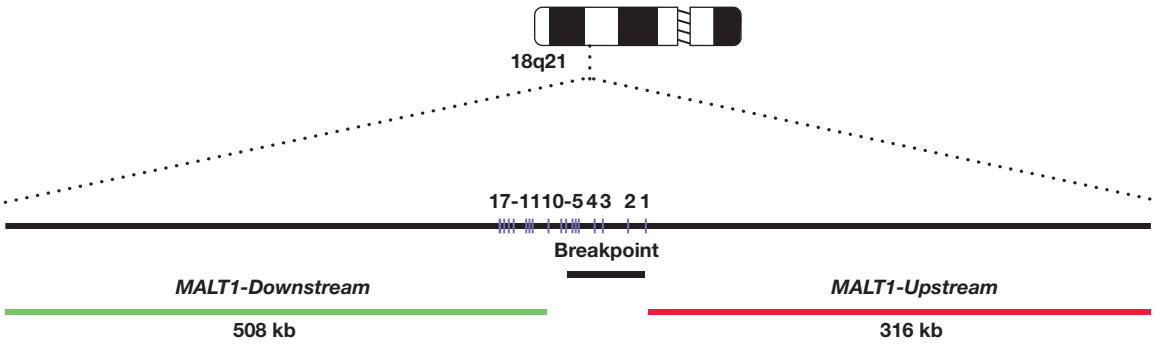
MALT1 FISH DNA Probe, Split Signal

RUO Y5409 20 tests, 0.2 mL

The human *MALT1* gene consists of 17 exons spanning a region of ~80 kb on chromosome 18 band q21. Y5409 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*MALT1-Upstream*) covering 316 kb centromeric to the *MALT1* breakpoint cluster region and a fluorescein-labeled DNA probe (*MALT1-Downstream*) covering 508 kb telomeric to the *MALT1* breakpoint cluster region.



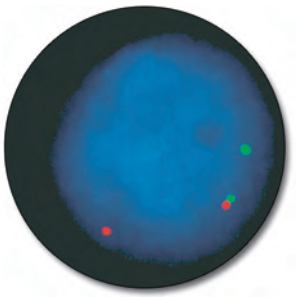
MALT1 gene translocation. Courtesy of Euro-FISH.



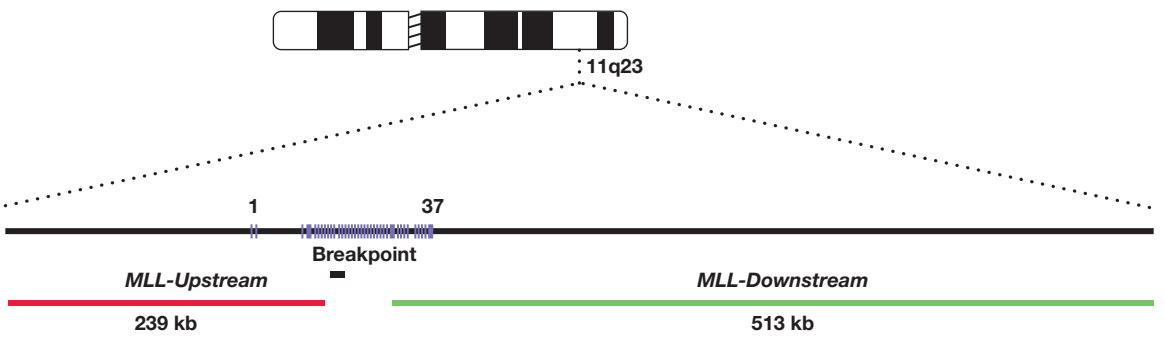
MLL FISH DNA Probe, Split Signal

CE Y5401 20 tests, 0.2 mL

The human *MLL* (*ALL-1, HTRX1, HRX*) gene consists of 37 exons spanning a region of 86 kb on chromosome 11 band q23. Y5401 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*MLL-Upstream*) covering 239 kb centromeric to the *MLL* breakpoint cluster region and a fluorescein-labeled DNA probe (*MLL-Downstream*) covering 513 kb telomeric to the *MLL* breakpoint cluster region.



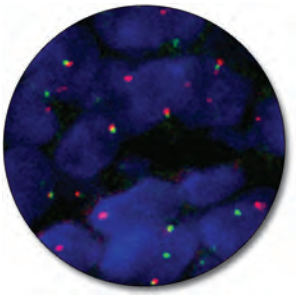
Precursor B-ALL with MLL gene translocation.



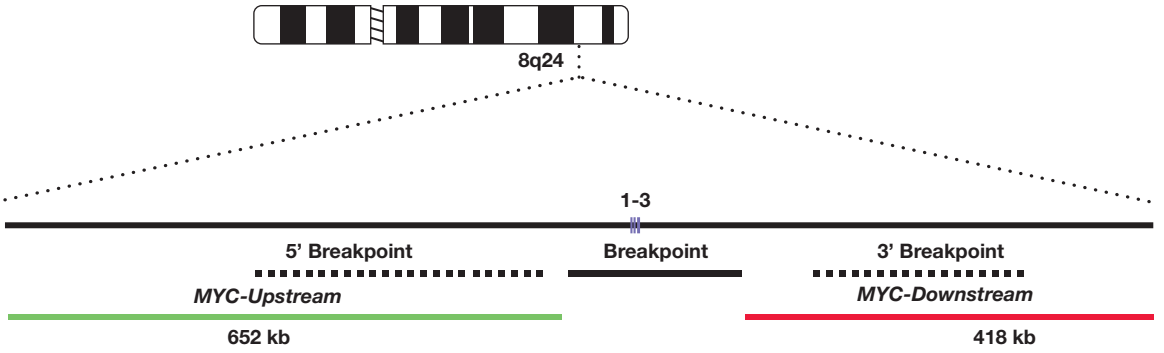
MYC FISH DNA Probe, Split Signal

RUO Y5410 20 tests, 0.2 mL

The human *MYC* gene consists of 3 exons spanning a region of ~5 kb on chromosome 8 band q24. Y5410 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*MYC-Downstream*) covering 418 kb telomeric to the *MYC* breakpoint cluster region and a fluorescein-labeled DNA probe (*MYC-Upstream*) covering 652 kb centromeric to the *MYC* breakpoint cluster region.



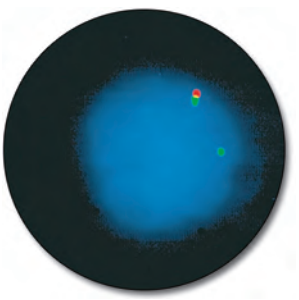
MYC gene translocation. Courtesy of Euro-FISH.



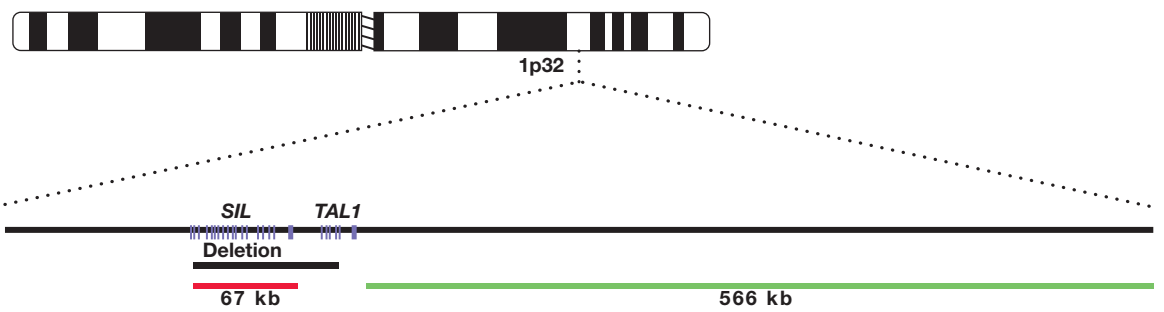
SIL-TAL1 FISH DNA Probe, Sub-Deletion Signal

CE Y5405 20 tests, 0.2 mL

The human *SIL* gene consists of 18 exons spanning a region of 64 kb. The human *TAL1 (SCL)* gene consists of 6 exons spanning a region of 16 kb. Both genes are located on chromosome 1 band p32. Y5405 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*SIL*) covering 67 kb of the deletion area and a fluorescein-labeled DNA probe covering 566 kb telomeric to the deletion area.



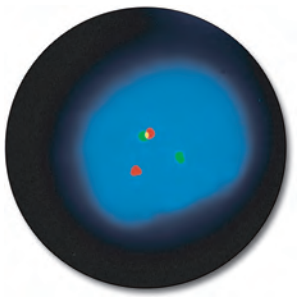
T-ALL with SIL-TAL1 gene fusion caused by sub-deletion.



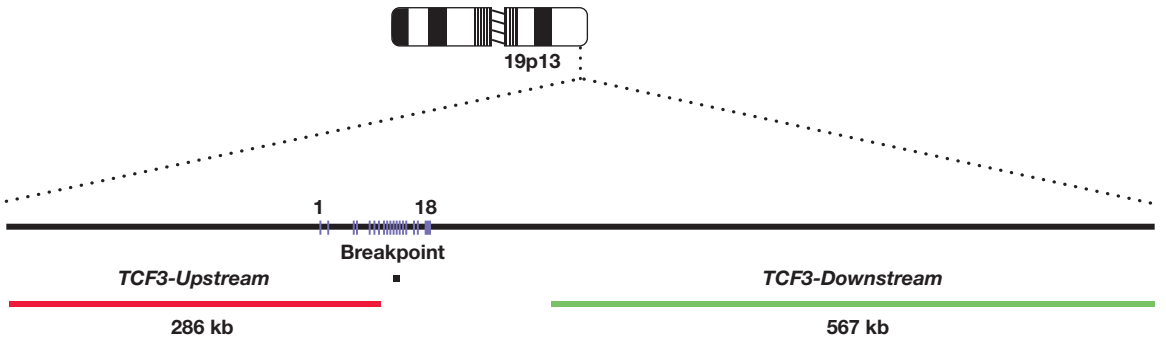
TCF3 FISH DNA Probe, Split Signal

CE Y5402 20 tests, 0.2 mL

The human *TCF3* (*E2A, ITF1*) gene consists of 18 exons spanning a region of 41 kb on chromosome 19 band p13. Y5402 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*TCF3-Upstream*) covering 286 kb centromeric to the *TCF3* breakpoint cluster region and a fluorescein-labeled DNA probe (*TCF3-Downstream*) covering 567 kb telomeric to the *TCF3* breakpoint cluster region.



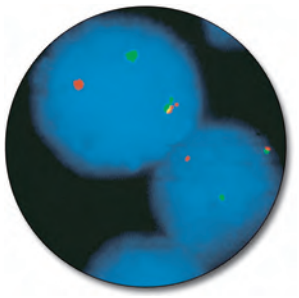
Precursor B-ALL with TCF3 gene translocation.



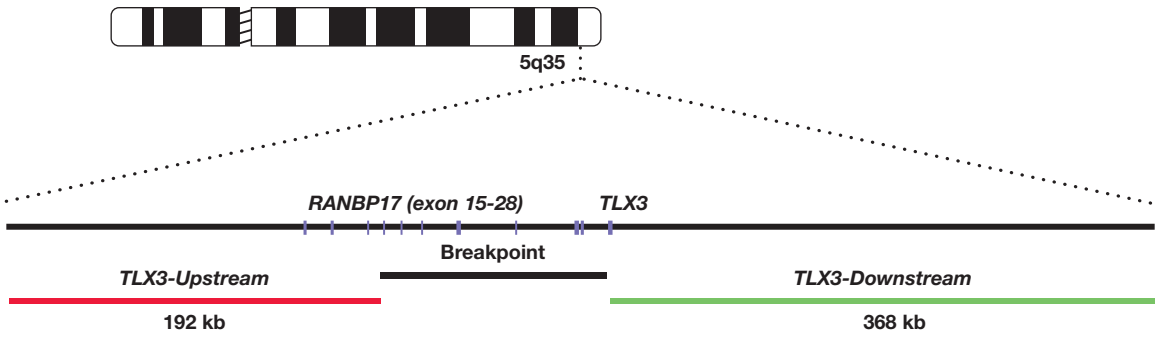
TLX3 FISH DNA Probe, Split Signal

CE Y5404 20 tests, 0.2 mL

The human *TLX3* (*HOX11L2, RNX*) gene consists of 3 exons spanning a region of 2.2 kb on chromosome 5 band q35 and is located 10.5 kb telomeric to the *RANBP17* gene. Y5404 is a probe mix based on a combination of DNA and PNA technology, and contains two ready-to-use FISH DNA probes and unlabeled PNA blocking probes. The FISH DNA probes are a mixture of a Texas Red-labeled DNA probe (*TLX3-Upstream*) covering 192 kb centromeric to the *TLX3* breakpoint cluster region and a fluorescein-labeled DNA probe (*TLX3-Downstream*) covering 368 kb telomeric to the *TLX3* breakpoint cluster region.



Precursor B-ALL with TLX3 gene translocation.



FISH DNA/PNA Probe Mix

FISH DNA/PNA Probe Mix for Solid Tumor Research

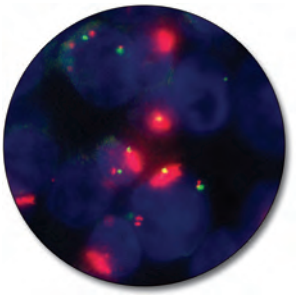
FISH DNA/PNA Probe Mix uses two differently labeled probes in each probe mix; a Texas Red-labeled DNA probe covering the full target gene region and a mixture of fluorescein-labeled PNA probes directed towards the centromeric region. Effective blocking of undesired background staining is achieved by using unlabeled PNA blocking probes.

The combination of a gene-specific probe and probes directed towards the centromere region of the same chromosome allows for detection of the copy number of the specific gene using the centromere as a reference.

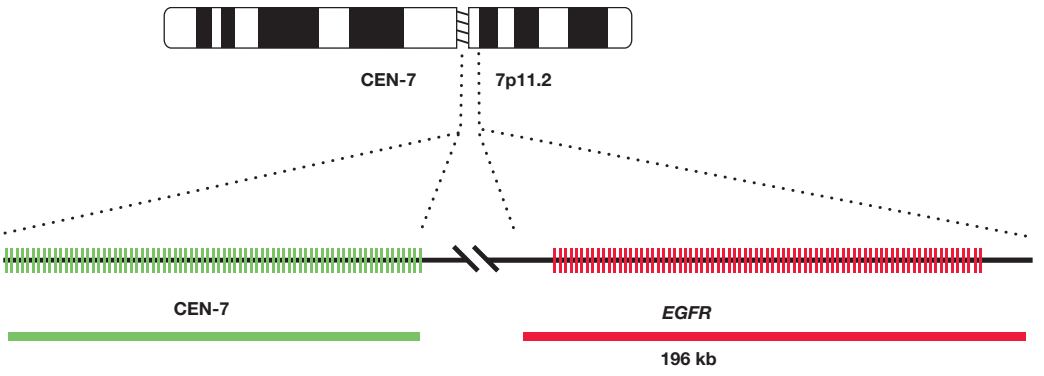
EGFR/CEN-7 FISH Probe Mix

RUO Y5500 20 tests, 0.2 mL

The *EGFR* (epidermal growth factor receptor) gene located on chromosome 7p11.2 spans approximately 188 kb and contains 28 exons. *EGFR*/CEN-7 FISH Probe Mix detects the copy number of the *EGFR* gene using the chromosome 7 centromere region as a reference. Y5500 is based on a combination of PNA and DNA technology, and contains a 196 kb Texas Red-labeled DNA probe covering the full *EGFR* gene and fluorescein-labeled PNA probes targeted at the centromeric region of chromosome 7. The probe mix also contains unlabeled PNA oligos directed towards repetitive sequences in the genome to diminish unspecific staining.



Clustered EGFR gene amplification in lung cells visualized using EGFR/CEN-7 FISH Probe Mix, Code Y5500.

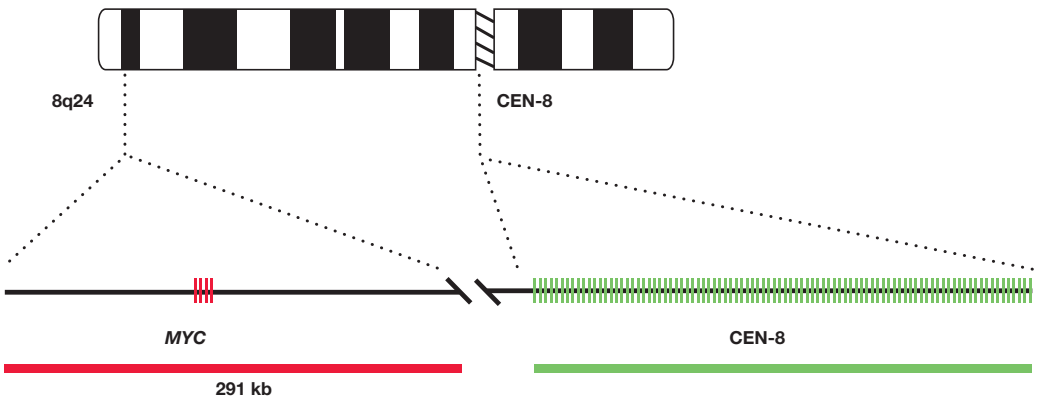


MYC/CEN-8 FISH Probe Mix

RUO Y5504 20 tests, 0.2 mL

The *MYC* (*c-Myc*) gene located on chromosome 8q24 spans approximately 5 kb and contains 3 exons. *MYC*/CEN-8 FISH Probe Mix detects the copy number of the *MYC* gene using the chromosome 8 centromere region as a reference.

Y5504 is based on a combination of PNA and DNA technology, and contains a 291 kb Texas Red-labeled DNA probe covering the full *MYC* region and fluorescein-labeled PNA probes targeted at the centromeric region of chromosome 8. The probe mix also contains unlabeled PNA oligos directed towards repetitive sequences in the genome to diminish unspecific staining.



IQFISH Panel for Lung Cancer

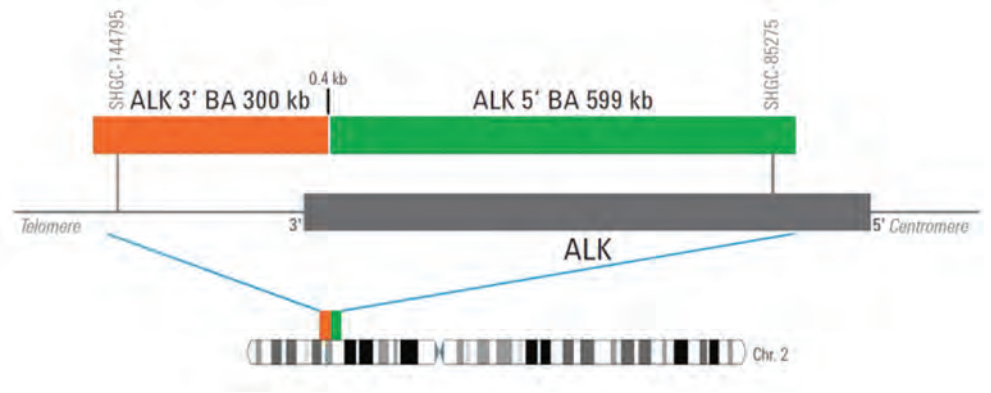
The IQFISH panel for lung cancer is a set of oligonucleotide-based FISH probes, pre-mixed with IQFISH Buffer, for the detection of rearrangements involving ALK, RET and ROS1 genes, and the detection of MET gene amplification by fluorescence in situ hybridization (FISH). These probes are for use on paraffin-embedded lung tissue sections.

ALK IQFISH Break-Apart Probe

CE G111600-8 200 µL, 20 tests
CE G211600-8 200 µL, 6 x 20 tests

The ALK IQFISH Break-Apart Probe is intended for the detection of rearrangements involving the ALK gene by fluorescence in situ hybridization (FISH). The probe is to be used on lung paraffin-embedded tissue sections.

Break-apart probes consist of two child probes, designed to be on opposite sides of the translocation break point for a given gene, each labeled in a different color. These probes generate signals in normal cells that are closely matched in size and co-localized (2 fusion). Following a translocation, the signals are 'broken apart' and no longer co-localize (for example: 1 red, 1 green, 1 fusion).

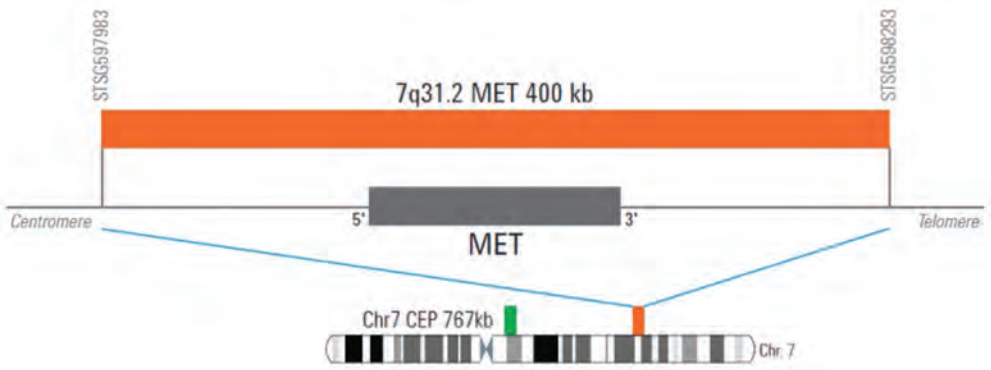


MET IQFISH Probe with CEP7

CE G111603-8 200 µL, 20 tests
CE G211603-8 200 µL, 6 x 20 tests

The MET IQFISH Probe with CEP7 is intended for the detection of MET gene amplification by fluorescence in situ hybridization (FISH). The probe is to be used on lung paraffin-embedded tissue sections.

In normal diploid cells in metaphase or interphase, the MET IQFISH Probe with CEP7 generates two orange-red signals (MET) and two green signals (chromosome 7). In cells with a gain or amplification of the MET gene or of chromosome 7, the number of signals will be greater.



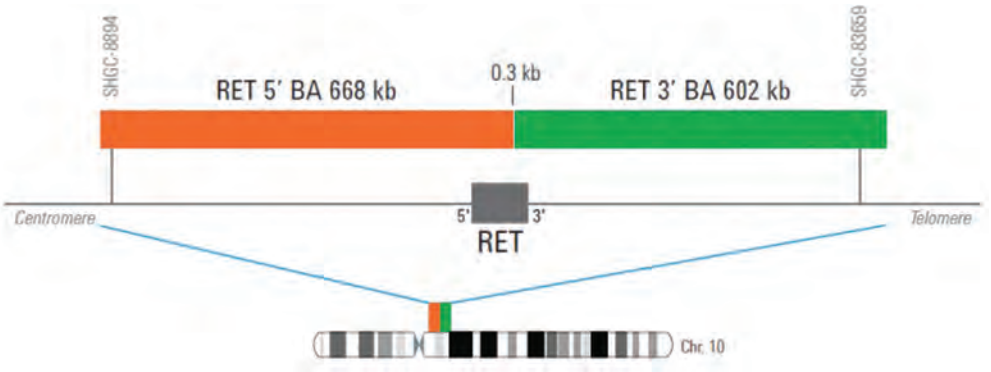
IQFISH Panel for Lung Cancer (continued)

RET IQFISH Break-Apart Probe

CE G111602-8 200 µL, 20 tests
CE G211602-8 200 µL, 6 x 20 tests

The RET IQFISH Break-Apart Probe is intended for the detection of rearrangements involving the RET gene by fluorescence in situ hybridization (FISH). The probe is to be used on lung paraffin-embedded tissue sections.

Break-apart probes consist of two child probes, designed to be on opposite sides of the translocation break point for a given gene, each labeled in a different color. These probes generate signals in normal cells that are closely matched in size and co-localized (2 fusion). Following a translocation, the signals are 'broken apart' and no longer co-localize (for example: 1 red, 1 green, 1 fusion).

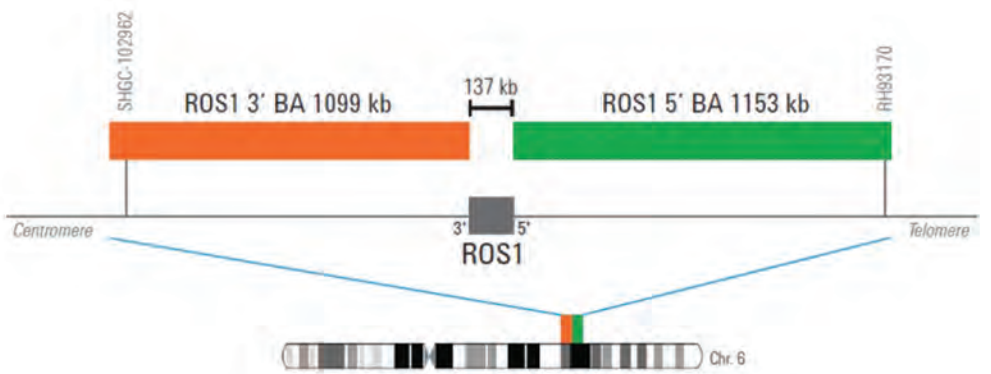


ROS1 IQFISH Break-Apart Probe

CE G111601-8 200 µL, 20 tests
CE G211601-8 200 µL, 6 x 20 tests

The ROS1 IQFISH Break-Apart Probe is intended for the detection of rearrangements involving the ROS1 gene by fluorescence in situ hybridization (FISH). The probe is to be used on lung paraffin-embedded tissue sections.

Break-apart probes consist of two child probes, designed to be on opposite sides of the translocation break point for a given gene, each labeled in a different color. These probes generate signals in normal cells that are closely matched in size and co-localized (2 fusion). Following a translocation, the signals are 'broken apart' and no longer co-localize (for example: 1 red, 1 green, 1 fusion).



SureFISH ALK/RET/ROS1 Probes

SureFISH* - The Next Generation FISH Technology

Fluorescence in situ hybridization (FISH) is a laboratory procedure in which fluorescently labeled DNA fragments (the FISH probe) hybridize to complementary DNA sequences in the cell's nucleus. The resulting fluorescent signals are visualized using a microscope and indicate the presence and localization of one or more targeted DNA sequences.

Oligonucleotide-Based FISH Probes

The unique SureFISH DNA FISH probes are designed in silico and chemically synthesized using the company's high-fidelity, oligonucleotide library synthesis (OLS) technology. This eliminates the limitations of FISH probes manufactured with bacterial artificial chromosome (BAC) technology.

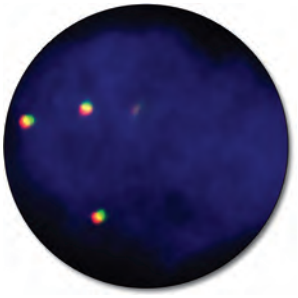
SureFISH

ALK BA

RUO	G111200-8	P5, SureFISH	5 µL
RUO	G111400-8	P20, SureFISH	20 µL
RUO	G211400-8	P20 x 6, SureFISH	20 µL, 6 vials
RUO	G111900-8	P200	200 µL

Child Probe 5' GR, Chr2
Start 29446949, Stop 30045655

Child Probe 3' RD, Chr2
Start 29146786, Stop 29446528



ALK probe on FFPE tissue. Each probe is sequence verified and tested by FISH to ensure detection of and specificity for the stated genomic coordinates.

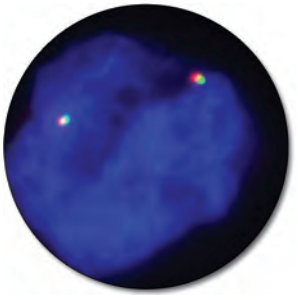
SureFISH

RET BA

RUO	G111202-8	P5, SureFISH	5 µL
RUO	G111402-8	P20 x 6, SureFISH	20 µL
RUO	G211402-8	P20 x 6, SureFISH	20 µL, 6 vials
RUO	G111902-8	P200	200 µL

Child Probe 5' GR, Chr10
Start 43609847, Stop 44211442

Child Probe 3' RD, Chr10
Start 43465309, Stop 43609540



RET probe on FFPE tissue. Each probe is sequence verified and tested by FISH to ensure detection of and specificity for the stated genomic coordinates.

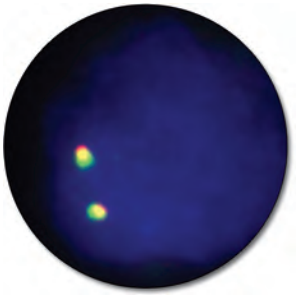
SureFISH

ROS1 BA

RUO	G111201-8	P5, SureFISH	5 µL
RUO	G111401-8	P20, SureFISH	20 µL
RUO	G211401-8	P20 x 6, SureFISH	20 µL, 6 vials
RUO	G111901-8	P200, SureFISH	200 µL

Child Probe 5' GR, Chr6
Start 117747013, Stop 118899513

Child Probe 3' RD, Chr6
Start 117320499, Stop 117609677



ROS1 probe on FFPE tissue. Each probe is sequence-verified and tested by FISH to ensure detection of and specificity for the stated genomic coordinates.

* SureFISH probes are manufactured by Agilent Technologies, Inc.

Human Papillomavirus DNA Probes

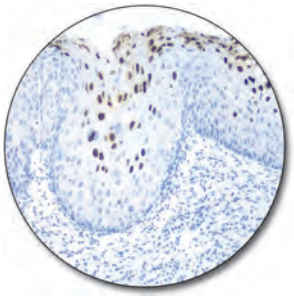
The labeled probes come in hybridization solutions formulated for rapid hybridization and low background binding to tissues. Dako HPV probes are double-stranded DNAs labeled with biotin, and fragmented to 50-600 base pairs to promote efficient tissue hybridization.

Human papillomavirus (HPV) is accepted as the primary causative agent in the development of cervical cancer. While there have been approximately 100 HPV genomic types identified, most of these are not oncogenic and therefore do not lead to the development of cervical cancer. Those HPV genotypes that have been identified as types that contribute to the development of cervical cancer are categorized into intermediate and high risk HPV.

GenPoint HPV DNA Probe Cocktail, Biotinylated

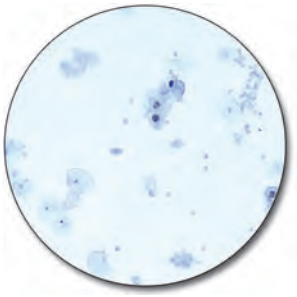
CE Y1443 1 mL

GenPoint HPV Probe is an HPV probe cocktail that identifies the 13 most prevalent **high-risk** HPV genotypes, including types 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, and 68. GenPoint HPV Probe contains HPV genomic DNA in the form of double-stranded fragments of 500 base pairs or less (biotinylated and unlabeled), and multiple biotinylated oligonucleotides from 25 to 40 bases in length. The probe is provided in 1 mL of in situ hybridization solution. GenPoint HPV Probe is optimized for amplified in situ hybridization using the GenPoint Tyramide Signal Amplification System, Code K0620, on histology and cytology specimens. The combination of this amplified ISH detection system and the GenPoint HPV Probe is the most powerful chromogenic ISH system available. The GenPoint System enables the sensitive detection of 1-2 copies of HPV DNA within the nucleus of an infected cell. This is demonstrated by a single punctate stain within the nucleus when observed under a bright field microscope. Episomal HPV DNA is represented by diffuse staining over the entire nucleus. The GenPoint assay is automated on the Dako Hybridizer and Autostainer Plus for optimal and reproducible performance.



Cervical biopsy, CIN II, stained with GenPoint HPV, Biotinylated DNA Probe Cocktail, Code Y1443. Episomal HPV DNA is evident by the complete nuclear staining pattern. Original diagnosis by H&E.

Cervical biopsy, CIN III, stained with GenPoint HPV, Biotinylated DNA Probe Cocktail, Code Y1443. Integrated HPV virus is denoted by the single punctate staining pattern. Original diagnosis by H&E.



ThinPrep® liquid-based cervical cytology specimen, LSIL, stained with GenPoint HPV, Biotinylated DNA Probe Cocktail, Code Y1443. Original diagnosis by Pap cytology.

Wide Spectrum HPV DNA Probe Cocktail, Biotinylated

CE Y1404 50 tests, 1 mL

This biotinylated probe consists of a genomic DNA cocktail containing several of the most common mucosotrophic HPVs. It has been tested for positive hybridization to the following HPV types: 6, 11, 16, 18, 31, 33, 35, 45, 51, and 52. This probe is useful for identifying HPV-positive specimens for subsequent HPV typing.

Human Papillomavirus (HPV) DNA Probe Cocktails, Biotinylated

CE Y1411 DNA Probe Mix, Types 6/11 50 tests, 1 mL

This biotinylated probe is formulated from mixtures of type-specific probes.

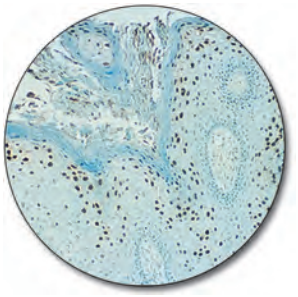
GenPoint Amplified Signal Detection System

Dako GenPoint system is a powerful, non-radioactive in situ hybridization signal amplification system for biotinylated probes. Based on a patented catalyzed signal amplification (CSA) methodology, it offers in situ PCR sensitivity with none of the associated complexities of costly instrumentation or contamination concerns. Dako GenPoint system can be used with routinely processed tissue or cell preparations making it an extremely versatile tool for in situ hybridization. Its signal amplification allows the user to visualize gene targets which are normally not detectable by traditional in situ hybridization procedures; for instance, the Dako GenPoint system positively labels single copies of HPV16 in SiHa cells. CSA is based on the catalyzed deposition of biotinyl tyramide. When followed by HRP-conjugated streptavidin, a high amplification of the signal occurs at the hybridization site.

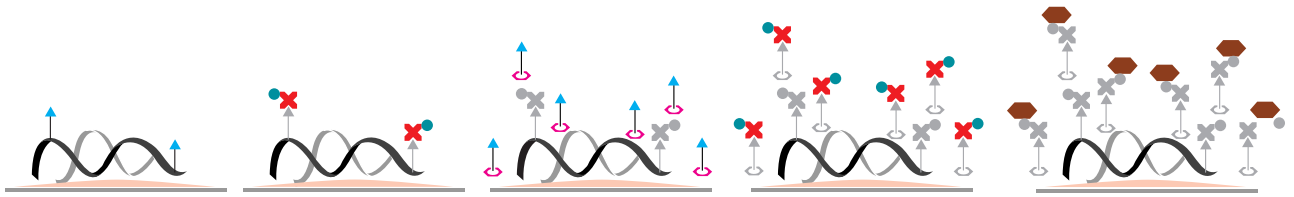
Further Information

The method is based on the consecutive application of:

1. Biotinylated probe
2. Peroxidase-conjugated streptavidin
3. Biotinyl tyramide
4. Peroxidase-conjugated streptavidin
5. Chromogenic substrate (diaminobenzidine (DAB))



Human condyloma stained with a HPV Type 11, DNA probe.



STEP 1 Hybridization of biotinylated probe to target nucleic acid.

STEP 2 Application of peroxidase-conjugated streptadivin.

STEP 3 Application of biotinyl tyramide.

STEP 4 Deposition of biotinyl tyramide is followed by application of peroxidase-conjugated streptadivin.

STEP 5 Application of chromogenic substrate (DAB).

GenPoint, Catalyzed Signal Amplification System*

CE K0620 For in situ hybridization 65 tests

The GenPoint system locates target sites hybridized with biotinylated nucleic acid probes with high sensitivity and resolution. The kit includes stringent wash concentrate, peroxidase-conjugated streptavidin, biotinyl tyramide, and diaminobenzidine (DAB) chromogenic substrate.

* Dako GenPoint embodies technology developed by and licensed from NEN Life Science Products, Inc. (U.S. Patent 5,196,306).

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This product is distributed and sold to the End-User pursuant to a license from NEN Life Science Products, Inc. for use by the End-User in manual or automated processing on Dako instrumentation only of glass microscope slides or other support material (other than microarrays and bio-chips) containing cell or tissue specimens for examining those specimens under a microscope (including automated image capture and analysis systems) for the purpose of detecting target nucleic acids or proteins. Purchase does not include or carry any right to resell or transfer this product either as a stand alone product or as a component of another product. Any use of this product other than the licensed use without the express written authorization of NEN Life Science Products, Inc. is strictly prohibited.

Standard Nucleic Acid Detection System

In Situ Hybridization Detection System, Code K0601, provides a rapid, simple, ready-to-use detection of biotinylated DNA or RNA probes.

STEP 1 Hybridization of biotinylated probe to target nucleic acid.

STEP 2 Application of alkaline phosphatase-conjugated streptavidin.

In Situ Hybridization Detection System

CE K0601 For biotinylated nucleic acid probes 50 tests

Components are: Stringent wash concentrate, ready-to-use alkaline phosphatase-conjugated streptavidin, ready-to-use BCIP/NBT chromogen solution and detailed instructions. Results may be obtained within two hours. The number of tests is based on the use of 150 µL of reagent per slide.

PNA Probes and Detection System

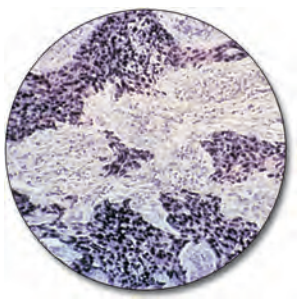
Hybridization techniques are used to localize and identify specific nucleic acid sequences. Initially used as a research tool, the development of non-radioactive probe labeling and detection systems has made this technology available to a wide variety of routine applications. Traditionally either cloned probes or synthesized oligonucleotide probes have been used for hybridization. We have successfully introduced the peptide nucleic acid (PNA) probe, a nucleotide analogue capable of binding to DNA/RNA in a sequence-specific manner obeying the Watson-Crick base pairing rules.

In PNA, the sugar phosphate backbone of DNA/RNA has been replaced by a synthetic peptide backbone keeping the distances between bases exactly the same as in DNA/RNA. The increase in affinity is evident from the increase in the T_m of 1-1.5 °C per base pair. Further, the PNAs are very stable molecules. Experiments have shown virtually no degradation by DNases, RNases, proteinases or peptidases. The PNA probes are labeled with fluorescein and detected using the sensitive PNA ISH Detection Kit, Code K5201.

Epstein-Barr Virus (EBER) PNA Probe/Fluorescein

CE Y5200 Ready-to-use 40 tests

EBV (EBER) probe is a mixture of fluorescein-labeled peptide nucleic acid (PNA) probes intended for the detection of **latent EBV infection** by in situ hybridization. Lymphoid tissue sections from Burkitt's lymphoma, Hodgkin's lymphoma and infectious mononucleosis as well as epithelial tissue from some oral leukoplakia cases and nasopharyngeal carcinoma have been found positive with this probe mixture. Used in conjunction with Dako PNA ISH Detection Kit (Code K5201), this probe allows detection of the two nuclear EBER RNAs encoded by Epstein-Barr virus by in situ hybridization within a single day on formalin-fixed, paraffin-embedded tissue sections. The number of tests is based on the use of 25 µL of probe per slide. This probe is also well-suited for use in flow cytometry. A procedure is available on request.



Nasopharyngeal carcinoma stained with EBV (EBER) PNA Probe/FITC, Code Y5200, and PNA ISH Detection Kit, Code K5201.

Kappa and Lambda mRNA PNA Probes/Fluorescein

CE Y5202 Ready-to-use 40 kappa and 40 lambda tests

Kappa and Lambda mRNA Probes are provided in two vials, each containing a mixture of fluorescein-labeled peptide nucleic acid (PNA) probes for the detection of human kappa and lambda light chain mRNA, respectively, by in situ hybridization.
The kit contains sufficient reagents for at least 40 determinations. Each determination includes stainings for both kappa and lambda light chain mRNA. Used in conjunction with Dako PNA ISH Detection Kit (Code K5201), these probes allow detection of kappa and lambda light chain mRNA by in situ hybridization within a single day on formalin-fixed, paraffin-embedded tissue sections.

PNA ISH Detection Kit

CE K5201 40 tests

PNA ISH Detection Kit for fluorescein-labeled peptide nucleic acid (PNA) probes contains all reagents necessary for performing an in situ hybridization, except for the specific probe. The kit contains proteinase K, negative and positive control probes, stringent wash solution, alkaline phosphatase-conjugated F(ab') fragment of rabbit anti-FITC, chromogenic substrate combined with an inhibitor of endogenous alkaline phosphatase (BCIP/NBT/levamisole), and Tris-buffered saline. A detailed working procedure is included. The number of tests is based on the use of 150 µL of reagent per slide.

Dako Omnis

Fluorescence Mounting Medium (Dako Omnis)

CE GM304 Ready-to-use 20 tests, 0.8 mL

Fluorescence Mounting Medium (Dako Omnis) is intended for mounting of formalin-fixed, paraffin-embedded (FFPE) tissue sections after FISH staining performed onboard the Dako Omnis instrument. The mounting medium also contains 500 µg/L DAPI for improved nuclei staining.

ISH Cleaning Solution (Dako Omnis)

CE GC207 Ready-to-use 100 tests, 10 mL

ISH Cleaning Solution (Dako Omnis) is an accessory to the Dako Omnis instrument. It is used for cleaning the pipette tip between dispenses of in situ hybridization probes. Washing with ISH Cleaning Solution dissolves ISH probe, allowing remaining probe to be effectively washed away with water. The product is provided in a ready-to-use vial for the Dako Omnis instrument.

ISH Ethanol Solution, 96% (Dako Omnis)

CE GM300 Ready-to-use 20 tests, 14 mL

ISH Ethanol Solution, 96% (Dako Omnis) is intended for use in automated in situ hybridization assays together with the Dako Omnis instrument on formalin-fixed, paraffin-embedded (FFPE) tissue sections. The solution is used in the wash step after target retrieval. The product is provided in a ready-to-use vial for the Dako Omnis instrument.

ISH Lid, for Dako Omnis

GC102 5 lids

Dako Omnis ISH Lid is intended for use in FISH procedures. Each Dako Omnis ISH Lid holds five slides and has five built-in Cover Glasses and one Humidity Pad. The Cover Glasses serve to distribute probe buffer across the staining area and to reduce buffer evaporation. The Humidity Pad with deionized water added serves to increase the humidity inside Dako Omnis ISH Lid to further reduce evaporation. Dako Omnis ISH Lid also provides insulation to maintain proper denaturation temperature.
Dako Omnis ISH Lid is single use only and is classified as non-hazardous waste.

ISH Pepsin (Dako Omnis)

CE GM302 Ready-to-use 20 tests, 7 mL

ISH Pepsin (Dako Omnis) is intended for use in automated in situ hybridization assays together with the Dako Omnis instrument on formalin-fixed, paraffin-embedded (FFPE) tissue sections. The solution is used in the digestion step. The product is provided in a ready-to-use vial for the Dako Omnis instrument.

ISH Pre-Treatment Solution (20x) (Dako Omnis)

CE GM301 Concentrate 175 mL, 20x concentrated

ISH Pre-Treatment Solution (20x) (Dako Omnis) is intended for use in automated in situ hybridization assays together with the Dako Omnis instrument on formalin-fixed, paraffin-embedded (FFPE) tissue sections. The solution is used in the pre-treatment step. An inert green color is added to the buffer for easy identification and user friendliness. The volume is tailored for dilution in one Dako Omnis bulk bottle.

ISH Stringent Wash Buffer (20x) (Dako Omnis)

CE GM303 Concentrate 175 mL, 20x concentrated

ISH Stringent Wash Buffer (20x) (Dako Omnis) is intended for use in automated in situ hybridization assays together with the Dako Omnis instrument on formalin-fixed, paraffin-embedded (FFPE) tissue sections. The solution is used in the post-hybridization step. An inert yellow color is added to the buffer for easy identification and user friendliness. The volume is tailored for dilution in one Dako Omnis bulk bottle.

Mixing Device, for Dako Omnis

GC116 1 unit

Dako Omnis Mixing Device is an accessory to the Dako Omnis instrument. It is designed specifically to support the fluorescence in situ hybridization (FISH) and the chromogenic in situ hybridization (CISH) procedures. The Dako IQISH buffer is extremely viscous, and during storage the reagent phase separates. Hence the Dako IQISH reagents require a particular preparatory processing to thaw and unify the content.
Some Dako ISH reagents are therefore provided in dedicated ISH reagent vials containing a mixing ball, and the Dako Omnis Mixing Device is designed to fit together with these ISH reagent vials.
Dako Omnis Mixing Device contains a magnet that enables the mixing ball to move up and down (110 cycles) inside the vial after 40 minutes thawing of the ISH reagent; thus ensuring a homogenous probe mix prior to application on the Dako Omnis instrument.

Vial with Mixing Ball, 2 mL, for Dako Omnis

GC206 25 vials **NEW** 2 mL

Dako Omnis Vial with Mixing Ball, 2 mL has been designed as an accessory for Dako Omnis and Dako Omnis Mixing Device and is intended for use in ISH procedures using user-provided FISH probes diluted in ethylene carbonate-based hybridization buffer (IQFISH). Dako Omnis Vial with Mixing Ball, 2 mL includes a mixing ball that is used by Dako Omnis Mixing Device to mix the IQFISH hybridization buffer with the user-provided probe. Each package contains 25 vials, 25 caps and 25 mixing balls.

Manual Kits

Cytology FISH Accessory Kit

CE K5499 20 tests

Cytology FISH Accessory Kit is designed for optimal performance with Dako FISH DNA probes on cytological specimens. Instructions for the simple FISH procedure are provided with the kit. The Cytology FISH Accessory Kit contains all key reagents, except for the probe, necessary to perform 20 FISH assays, i.e. stringent wash buffer, wash buffer, antifade mounting medium with fluorescent nuclei counterstain, and coverslip sealant. No protease treatment is required. The procedure may be performed manually or using the Dako Hybridizer, Codes S2450/S2451.

Histology FISH Accessory Kit

CE K5799 20 tests

Histology FISH Accessory Kit is designed for optimal performance with Dako FISH probes on formalin-fixed, paraffin-embedded tissue sections. Instructions for the simple FISH procedure are provided with the kit. The Histology FISH Accessory Kit contains all key reagents, except for the probe, necessary to perform 20 FISH assays in up to 10 independent staining runs, i.e. pre-treatment solution, pepsin (ready-to-use), stringent wash buffer, wash buffer, antifade mounting medium with fluorescent nuclei counterstain, and coverslip sealant. The procedure may be performed manually or using Dako Hybridizer, Codes S2450/S2451.

Manual Reagents

IQFISH Fast Hybridization Buffer

RUO	G9415A	Hybridization Buffer 200	200 µL
RUO	G9416A	Hybridization Buffer 200 x 6	200 µL x 6
RUO	G9414A	Hybridization Buffer 900	900 µL

H&E Solution

Introduction to the H&E Solution

Dako CoverStainer for H&E

Our state-of-the-art H&E solution fully automates every step of the hematoxylin and eosin staining process from baking to drying. Providing the operational flexibility to meet laboratories' special needs, it delivers consistent, high-quality results while maximizing productivity and optimizing resource utilization.

Dako H&E solution combines the advanced Dako CoverStainer with Dako ready-to-use reagents, a Dako validated, optimized protocol, and features Dako Reagent Management System (DakoRMS) - an intelligent, automated reagent handling system that ensures consistent, high-quality staining.

Excellent Quality

Excellent quality staining is ensured when combining Dako CoverStainer's comprehensive capabilities with our high-quality, ready-to-use reagents.

Great Consistency

Dako CoverStainer consistently stains up to 3,000 slides with the same reagents to achieve accurate results. DakoRMS features reagent circulation, which minimizes precipitation while specially designed racks reduce carry-over.

High Productivity

Dako CoverStainer automates the H&E process completely from microtome to microscope with one of the fastest fully automated H&E solutions on the market. Dako CoverStainer offers a turn-around time of as little as 46 minutes and the ability to process up to 240 slides per hour. The productivity is increased with the ability to do overnight runs.

Optimized Workflow

Dako CoverStainer is designed with lean processes in mind. It is simple to operate and requires minimal user intervention, reducing hands-on time and freeing up staff to complete other tasks. With continuous batch loading and unloading, Dako CoverStainer will even out your workload, optimizing your routine staining process.

Outstanding Flexibility

Optimize your flexibility and control over the end result when using Dako CoverStainer to fully automate your process. The laboratory's individual needs are realized with the ability to customize staining protocols. Get the individualized results that pathologists desire by running multiple protocols simultaneously.

DakoLink Software

Dako CoverStainer is integrated in the DakoLink software. This one-way connection from Dako CoverStainer to DakoLink enables you to benefit from the quality system offered, including features such as easy report generation, labeling system and slide tracking.

Make use of the advantages that DakoLink software offers!

Dako CoverStainer

Dako CoverStainer is a fully automated H&E working station that covers: Baking → Dewaxing → Staining → Dehydration → Coverslipping → Drying. Featuring fully automated and flexible operation, Dako CoverStainer provides the H&E solution laboratories can count on for accurate results, streamlined workflow, and enhanced productivity.

- Full automation reduces errors, manual handling and turnaround time
- System mobility utilizes laboratory space more efficiently
- Continuous loading and unloading of slides improves throughput
- Integrated baking and heating capacity adds convenience and efficiency
- Wide range of customizable protocols provides maximum system flexibility
- Elimination of separate workstations creates seamless staining to coverslipping
- Intuitive software facilitates rapid start-up and operation

Dako CoverStainer

CE CS100 H&E instrument 1 unit

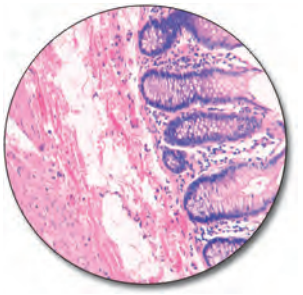
Dako CoverStainer automates every step of the H&E process from baking, dewaxing and staining through to the dehydrated, coverslipped and dried slide that is ready for examination by the pathologist. Dako Reagent Management System (DakoRMS), which is an integral part of Dako CoverStainer, automates the reagent handling process, and secures consistent high staining quality as well as better safety for laboratory personnel when handling reagents.
Dako CoverStainer is part of the Dako H&E solution which also consists of ready-to-use reagents, an optimized, validated H&E protocol, consumables as well as DakoLink software integration. This combination gives laboratories consistently high staining quality while at the same time reducing hands-on and turnaround time.

Hardware Specifications

Dimensions	65.1" W x 26.5" D x 50.1" H (165.5 cm W x 67.2 cm D x 128.0 cm H)
Electrical specifications	100-120 V: ~6 A, 50/60 Hz
	220-240 V: ~3 A, 50/60 Hz
Normal operating temperature	18-26 °C (64-79 °F), relative humidity: 25-60%
Network/LIS connection	LAN: preferably with DHCP server
Cable	Minimum CAT-5 patch cable, maximum length: 3 m (10 ft)
Total slide capacity	120 slides per run/240 slides per hour, continuous loading
Reagent capacity	36 reagent stations, 18 dip tanks with 2 compartments

H&E, Colon - Slide No. 1

These H&E slides illustrate the staining quality and consistency of Dako CoverStainer. This slide is the first stained with fresh Dako H&E reagents.



H&E, Colon - Slide No. 3000

This slide is the 3000th slide stained with the very same reagents. It demonstrates quality and consistency for up to 3000 slides (or 5 days usage) with the same H&E reagents.

Coverslipper for Glass Slides

The compact Dako Coverslipper is a conveniently small and fast instrument which provides the right combination of efficiency and design simplicity to help improve laboratory productivity. For both small and large laboratories requiring high reliability and consistency in slide output, the easy-to-use Dako Coverslipper is an excellent solution.

- High throughput by combining efficiency and design simplicity
- High efficiency via automated versatility and accelerated slide processing
- High performance with consistent uptime through trusted Dako reliability

Coverslipper, Dako

CR100	Coverslipper	1 unit, 120/240 volts

Coverslipper automates and simplifies the tedious task of adding cover glass/coverslips on microscope slides. The instrument can handle up to 600 slides per hour making it one of the fastest on the market. Quality is not offset by the speed of the instrument and the unit consistently provides high quality coverslipping. The flexibility of Coverslipper allows it to handle various cover glass/coverslip sizes. In addition to the flexibility of Coverslipper it is easy and straightforward to operate and cleaning and maintenance is simple to do. It is small enough to fit into fume cabinets, easy to move around and accepts a variety of commercial mounting media.

Ancillaries and Accessories

Ancillaries
We offer high-quality cover glasses in different sizes. They range from 24 mm x 40-60 mm.

Accessories
Dako H&E Accessories are ready-to-use reagents that provide excellent staining quality and reproducibility using Dako CoverStainer. All reagents are fully compatible with Dako CoverStainer and can be inserted directly in the instrument thereby minimizing hands-on time. Mounting Medium and Cover Glass reduce the risk of air bubbles thereby providing crisp and clear Hematoxylin & Eosin stained tissue sections.

Dako CoverStainer Slide Rack
The slide rack for DakoCoverStainer has a unique design which minimizes reagent carryover, extending reagent longevity and enabling consistent staining results.

At the same time, the Dako CoverStainer slide rack gives you full visibility of your slides which will help you reduce the time spent sorting them.

Bluing Buffer, Dako

CE CS702 Ready-to-use — Up to 3000 tests, 1 L

Dako Bluing Buffer ensures the proper alkalinity in primary staining resulting in a detailed, crisp and clear nuclear staining. Dako Bluing Buffer is ready-to-use and suitable for use with Dako CoverStainer.

Cover Glass, Dako

CE CS704 24 x 50 mm — 5 x 200 pcs

Dako Cover Glass can be used both for automated and manual coverslipping. These high-quality cover glasses are manufactured with consistent and uniform thickness and size for reliable coverslipping results. Dako Cover Glass are suitable for use with Dako CoverStainer.

Cover Glass

CR124	24 mm x 40 mm	5 x 200 pcs
CR122	24 mm x 55 mm	5 x 200 pcs
CR121	24 mm x 60 mm	5 x 200 pcs

All sizes of Cover Glass are suitable for use with the compact Dako Coverslipper or manual coverslipping.

Eosin, Dako

CE CS701 Ready-to-use — Up to 3000 tests, 1 L

Dako Eosin is used for primary staining as a counterstain to Dako Hematoxylin. The reagent stains cytoplasm structures of certain cells (e.g.muscle), collagen and red blood cells in various shades of pink to orange. The result is a well-defined, stained slide. Dako Eosin is ready-to-use and suitable for use with Dako CoverStainer.

Hematoxylin, Dako

CE CS700 Ready-to-use — Up to 3000 tests, 1 L

Dako Hematoxylin is a histological staining reagent which is suitable for visualization of nuclei in tissue sections and cell preparations. The reagent does not contain alcohol and may be used for primary staining. The hematoxylin staining result is a well delineated crisp color in cell nuclei. Dako Hematoxylin is ready-to-use and suitable for use with Dako CoverStainer.

Mounting Medium

CE CS703 Ready-to-use — 473 mL

Dako Mounting Medium is a low viscosity, fast drying medium that is designed for use with an automated glass coverslipper. It is a permanent mounting medium and is compatible with xylene (aromatic) and xylene-free (aliphatic) clearing agents. Dako Mounting Medium is ready-to-use and suitable for use with Dako CoverStainer.

Mounting Medium, Toluene-Free

CE CS705 Ready-to-use — 500 mL

DakoToluene-Free Mounting Medium is a low viscosity, fast drying medium that is designed for use with an automated glass coverslipper. It is a permanent mounting medium and is compatible with xylene (aromatic) and xylene-free (aliphatic) clearing agents. Dako Toluene-Free Mounting Medium is ready-to-use and suitable for use with Dako CoverStainer.

Slide Rack, Dako CoverStainer

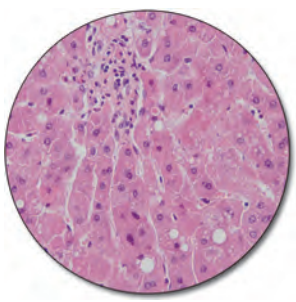
CS119 Slide racks, each holding 10 glass slides **NEW** — 10 racks

Dako CoverStainer Slide Rack is designed for use on Dako CoverStainer. The slide rack holds the slides with samples to be processed on Dako CoverStainer. Each slide rack can carry up to ten slides and each slide is placed in positioning grooves and fixated by a spring. Dako CoverStainer is validated with slides having non-beveled edges (25-26 mm width x 76 mm length). Dako does not recommend the use of other slide types.

Universal Label Printer (Link)

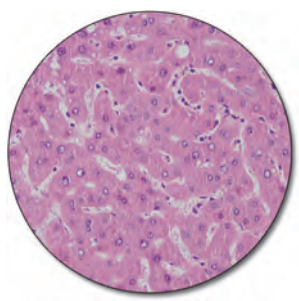
DL412 Label printer — 1 unit

The printer works with all Dako instruments connected through DakoLink software, including Dako CoverStainer.



H&E, Liver - Slide No. 1

These H&E slides illustrate the staining quality and consistency of Dako CoverStainer. This slide is the first stained with fresh Dako H&E reagents.



H&E, Liver - Slide No. 3000

This slide is the 3000th slide stained with the very same reagents. It demonstrates quality and consistency for up to 3000 slides (or 5 days usage) with the same H&E reagents.

Special Stains Solution

Introduction to the Special Stains Solution

Artisan Link Pro delivers excellent quality special stains using Artisan Reagents

Dako Special Stains Solution is a combination of the integrated Artisan Link Pro Special Staining System and high-quality special stains kits and accessories. The Artisan Link Pro unit consists of a slide processor, a touch screen computer system with DakoLink software and a report and slide label printer. Artisan Reagents are special stains kits and accessory reagents packaged in patented cartridges that provide precision dispensing of reagents for optimal staining quality.

Simplify laboratory processes and improve productivity

Ready-to-use reagents and waste separation to four containers not only simplify laboratory processes but are also crucial factors to comply with newer and stricter safety and risk management requirements. Aimed to improve the productivity in your laboratory, the Artisan Link Pro Special Staining System also incorporates barcode reading technology for reagents and slides.

Special Stains Solution connected to the whole pathology laboratory

Up to three Artisan Link Pro Special Staining Systems can be connected to one touch screen computer. It operates either in a single or in a networked configuration system using a LAN system (DakoLink software) or a Laboratory Information System (LIS). Each workstation has full access to a central database that contains all data and historical slide information for the entire installation. The software can manage and monitor all DakoLink-connected staining instruments on the network.

Artisan Clearing Solution automates the process of slide drying and dewaxing

Artisan Clearing Solution allows for loading of slides directly from the microtome, thus automating the process of slide drying and dewaxing onboard the staining system for all protocols.

Artisan Link Pro Special Staining System

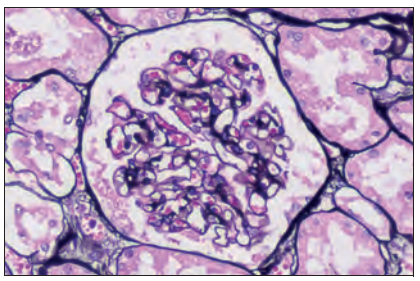
This unit consists of a slide processor, a touch screen computer system with DakoLink software and a report and slide label printer. Up to three Artisan Link Pro Special Staining Systems can be connected to one touch screen computer. It operates either in single or in a networked configuration system using a LAN system (DakoLink software) or a Laboratory Information System (LIS); providing 24/7 access to the stainer processing status. Artisan Link Pro has a touch screen interface, which minimizes system footprint and simplifies operation.

It delivers excellent quality special stains using Artisan Reagents, which are packaged in patented cartridges that provide precision dispensing of reagents for optimal staining quality.

- **Artisan Link Pro Instrument**
  This unit consists of a slide processor, a touch screen computer system with DakoLink software and a report and slide label printer
- **Artisan Reagents**
  Artisan reagents include special stains and accessory reagents. Dako offers special stains kits specifically designed for Artisan Special Staining Systems. Artisan Clearing Solution is used for automated, onboard drying and dewaxing on Artisan Link and Artisan Link Pro.

Artisan Link Pro Special Staining System

CE AR310 Slide-processing instrument 1 unit



Artisan Link Pro Special Staining System delivers excellent quality stains in its broad menu.

Ready-to-use reagents and waste separation to four containers not only simplify the laboratory workflow but are also crucial factors to comply with newer and stricter safety and risk management requirements.

Aimed to improve the productivity and reduce the possibility of error in the laboratory, Artisan Link Pro incorporates automated 2D matrix reading technology to the slides and reagents.

The Artisan Link Pro instrument uses the DakoLink software, which you can customize to meet your specific needs and requirements. Each workstation has full access to a central database that contains all data and historical slide information for the entire system. Each installation of DakoLink software can manage and monitor all staining instruments on the network.

A DakoLink server computer can do anything a workstation computer can do, except start a run. Laboratory Information System (LIS) located anywhere in the laboratory can be connected to Artisan Link Pro.

- 48-slide capacity with individual slide heating up to 65 °C gives optimal staining for both heat-sensitive and heat-tolerant special stains. This allows for shortened incubation times resulting in increased throughput.
- The reagent labels include a color strip which indicates the required storage conditions.
- Four separate waste bottles mean simple, neat and inexpensive waste removal for increased cost savings and risk management compliance. Four bottles separate organic solvents, acids and toxic chemicals from aqueous waste.
- Preview and print reports from the central database that contains all data and historical slide information. Reagent activities can be reported to track and manage your inventories.
- Artisan Clearing Solution allows for automating the slide drying and dewax process on-board the staining system.
- Touch screen interface minimizes footprint and simplifies operation.

Artisan Link Pro Special Staining System (continued)

Hardware Specifications

ArtisanLink Pro	
Component	**Description**
Dimensions	32" W x 26" D x 20.5" H (80 cm W x 67 cm D x 52 cm H)
Weight	150 lbs (68 kg)
Total slide capacity	48 glass slides (25 mm and 26 mm)
Total reagent capacity	50 reagent packs
Pack size	50 tests pack: 200 dispense strokes 100 tests pack: 400 dispense strokes
Bulk fluid capacity	Six 1 L bottles (optional: 1 off-board 4 L bottle)
Reagent waste capacity	Two 2 L bottles, two 4 L bottles
Connections and cables	Two Ethernet cables for Artisan Link Pro connection network AC line cord
Electrical requirements	120/220-240 VAC 50/60 Hz 800 W
Power supply	T 6.30 A. 250 V Schurter FST0034.3125 time lag fuse

Artisan Link Pro Workstation	
Component	**Description**
Printer (reports)	Model HP DeskJet or equivalent
Printer (labels)	Universal Label Printer (Link)
Client/Server PC with operating system	All-in-one, medical grade touch screen computer (workstation), 2.2 GHz Intel® Core 2 or equivalent
Monitor and keyboard	17" flat panel, touch screen
Pollution degree	2
Installation category	II

Installation Requirements

- An area of approximately 55" W x 36" D x 36" H (140 cm W x 90 cm D x 90 cm H) will be required for the instrument
- The specified area includes necessary room behind and on top of instrument for proper exhaust from the fans. To ensure adequate airflow behind the instrument, the space required for the DC input plug and the waste trap is sufficient.
- Dedicated power outlet preferred (or shared outlet with a provided surge protector)

Artisan Accessories

Alpha-Amylase, Artisan

CE AR171 50 tests/100 tests

Clearing Solution, Artisan

CE AR309 Ready-to-use 5 x 100 tests

Artisan Clearing Solution is an environmentally safe, non-hazardous solution that allows deparaffinization and rehydration of tissue sections on Artisan Link and Artisan Link Pro Staining Systems. It removes paraffin from tissue sections as a pre-staining step and is compatible with all Artisan staining kits. Artisan Clearing Solution allows for automated, on-board drying, deparaffinization and rehydration of mounted tissue sections coming directly from the microtome.

Maintenance Kit, Artisan

AR314 Ready-to-use 33 tests

Artisan Maintenance Kit is used for maintenance of Artisan Link and Artisan Link Pro Staining Systems. This product is recommended for routine cleaning of the Artisan Link and Artisan Link Pro instruments, according to the recommended cleaning schedule. It has been optimally prepared and requires no mixing or diluting.

Reagent Holder, 14 Pack, Artisan

AR409 1 unit

Slide Label Kit, Small Flap

DL213 Slide label kit 1500 labels

Universal Label Printer (Link)

DL412 Label printer 1 unit

Wash Solution, Artisan

CE AR102 Concentrated 4 x 200 mL, 50x concentrated

Artisan Link and Link Pro Special Stains

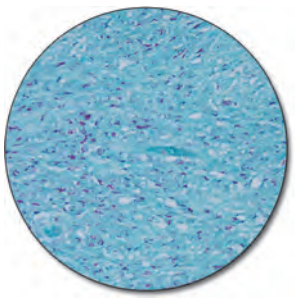
We offer 30 Special Stains ranging from Acid-Fast Bacteria Stain Kit to Warthin-Starry Stain Kit. The onboard drying and deparaffinization feature, using the environmentally safe Artisan Clearing Solution, enables a total start to finish staining process on the Artisan Link and Artisan Link Pro Special Stains Staining System. The reagents are packaged in a patented reagent-sealed cartridge that provides fresh reagents to each slide. The precision dispensing of reagents results in optimal staining quality. The Artisan Link and Artisan Link Pro Special Stains Staining System includes the DakoLink software which has reagent and slide tracking using a 2D barcode system with the ability to connect up to three instruments to one workstation.

The special stains kits in this section are for Artisan Link and Link Pro Special Staining Systems only. Not for use on Artisan Classic.

Acid-Fast Bacteria (AFB) Light Green Stain Kit, Artisan

CE AR362 Ready-to-use 50 tests

Acid-Fast Bacillus (AFB) Light Green Stain Kit is intended to identify acid-fast bacteria, such as *Mycobacterium*, in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Application of Carbol Fuchsin stains acid-fast bacteria red, followed by decolorization of all tissue elements except the acid-fast bacteria. A Light Green counterstain is then applied to impart a green color to all background tissue elements.

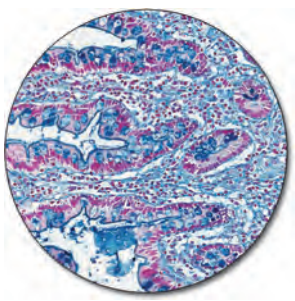


Colon stained with AFB Light Green, Code AR362.

Colloidal Iron Stain Kit, Artisan

CE AR307 Ready-to-use 50 tests

Colloidal Iron Stain Kit is intended to identify carboxylated and sulfated mucopolysaccharides and glycoprotein mucin in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Colloidal ferric ions are, at a low pH, absorbed principally by carboxylated and sulfated mucosubstances staining a dark blue. A counterstain of Nuclear Fast Red stains the nuclei and cytoplasm light pink.



Small intestine stained with Colloidal Iron, Code AR307.

Giemsa Stain Kit (Jenner-Wright), Artisan

CE AR308 Ready-to-use 50 tests

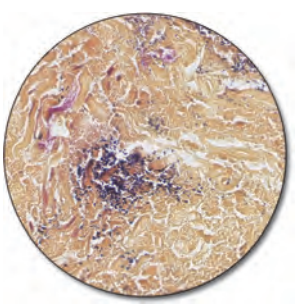
Jenner-Wright Giemsa Stain Kit is a stain technique used to permit differentiation of cells present in bone marrow tissue sections cut at 2-3 µm on the Artisan Link and Artisan Link Pro Staining Systems. Polychromatic stains are used as routine nuclear and cytoplasmic stains for bone marrow biopsy sections because of the color range of the cytoplasmic staining and the differentiation of hematopoietic cells achieved. Nuclei: blue, eosinophils: bright pink, leucocytes: shades of pink, gray, or blue depending on cell type and development. This stain is not recommended for bone marrow smears.

Bone marrow stained with Jenner-Wright Giemsa, Code AR308.

Gram Yellow Stain Kit, Artisan

CE AR306 Ready-to-use 50 tests

Gram Yellow Stain Kit is intended to identify Gram-positive and Gram-negative microorganisms in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Gram Yellow Stain Kit is used to identify two distinct groups of microorganisms in tissue sections. Those that retain primary dye (Crystal Violet) are called Gram-positive. Those that lose the primary dye during decolorization are called Gram-negative. Mechanisms of Gram-positive organisms retaining the primary stain and Gram-negative organisms losing the primary stain are the result of the chemistry and structure of the organism's cell walls. Gram-positive organisms: dark blue, Gram-negative organisms: light pink to magenta and the background: yellow.

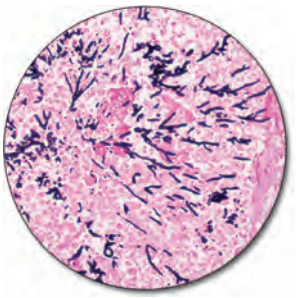


Skin stained with Gram Yellow, Code AR306.

Grocott's Methenamine Silver (GMS) Eosin Stain Kit, Artisan

CE AR376 Ready-to-use 50 tests

Grocott's Methenamine Silver (GMS) Eosin Stain Kit is intended to identify fungal organisms and *Pneumocystis jiroveci* (formerly known as *carinii*) in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Fungi and *Pneumocystis jiroveci* are stained black while other tissue elements are stained pink. This stain is not recommended for cytology specimens.

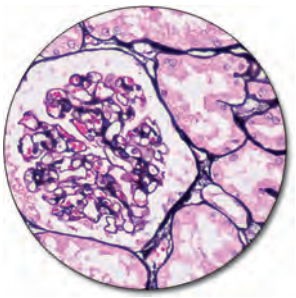


Lung stained with GMS Eosin, Code AR376.

Jones' Basement Membrane (PAS-M) H&E Stain Kit, Artisan

CE AR480 Ready-to-use 100 tests

Jones' Basement Membrane H&E Stain Kit is used to identify basement membranes, specifically glomerular and tubular basement membranes in renal tissue sections cut at 2 µm on the Artisan Link and Artisan Link Pro Staining Systems. The Bowman's capsule: black, inner basement membrane: black to gray, nuclei: blue, collagen, cytoplasm and other tissue elements: pink.

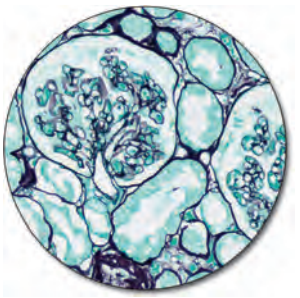


Kidney stained with PAS-M H&E, Code AR480.

Jones' Basement Membrane (PAS-M) Light Green Stain Kit, Artisan

CE AR380 Ready-to-use 50 tests

Jones' Basement Membrane Light Green Stain Kit is used to identify basement membranes, specifically glomerular and tubular basement membranes in renal tissue sections cut at 2 µm on the Artisan Link and Artisan Link Pro Staining Systems. The Bowman's capsule: black, inner basement membrane: black to gray, other tissue elements: light green.

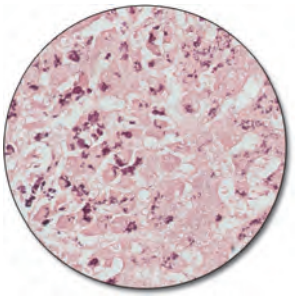


Kidney stained with PAS-M Light Green, Code AR380.

Orcein Stain Kit, Artisan

CE AR313 Ready-to-use 50 tests

Orcein Stain Kit is a stain technique used to identify viral inclusion bodies of hepatitis B surface antigen (HBsAG) and copper-associated proteins in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Virus particles inside host cells are called viral inclusion bodies. A hepatitis B virus lies on the surface of the virus particle. HBsAG can be detected by using the Orcein staining method. The antigen appears as fine granules either diffusely spread throughout the cytoplasm or concentrated in the cytoplasm peripheral to the sinusoid space. Copper-associated proteins when in excessive pathologic amounts, such as Wilson's disease and some forms of cirrhosis, can be detected by using the Orcein staining method. HBsAG/elastin fibers: dark reddish brown, copper-associated protein: dark red-purple and background: pale pink-pink.



Liver stained with Orcein for copper-associated protein, Code AR313.

Artisan Special Stains

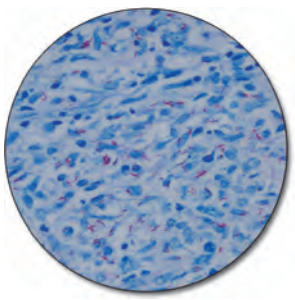
We offer 30 Special Stains ranging from Acid-Fast Bacteria Stain Kit to Warthin-Starry Stain Kit. The onboard drying and deparaffinization feature, using the environmentally safe Artisan Clearing Solution, enables a total start to finish staining process on the Artisan Link and Artisan Link Pro Special Stains Staining System. The reagents are packaged in a patented reagent-sealed cartridge that provides fresh reagents to each slide. The precision dispensing of reagents results in optimal staining quality. The Artisan Link and Artisan Link Pro Special Stains Staining System includes the DakoLink software which has reagent and slide tracking using a 2D barcode system with the ability to connect up to three instruments to one workstation.

The Special Stains kits in this section are suitable for all versions of Artisan, i.e. Artisan Link Pro, Artisan Link and Artisan Classic.

Acid-Fast Bacteria (AFB) Stain Kit, Artisan

CE AR162 Ready-to-use 50 tests/100 tests

Acid-Fast Bacillus (AFB) Stain Kit is intended to identify acid-fast bacteria, such as *Mycobacterium*, in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Application of Carbol Fuchsin stains acid-fast bacteria red, followed by decolorization of all tissue elements except the acid-fast bacteria. A Methylene Blue counterstain is then applied to impart a blue color to all background tissue elements.

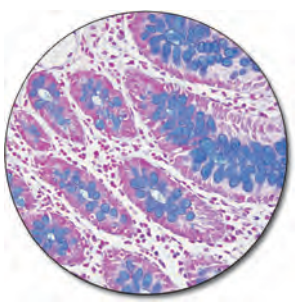


Colon stained with AFB, Code AR162.

Alcian Blue pH 2.5 Stain Kit, Artisan

CE AR160 Ready-to-use 50 tests/100 tests

Alcian Blue pH 2.5 Stain Kit is intended to identify weakly sulfated mucins in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. At pH 2.5, acidic mucopolysaccharides stains blue. A Nuclear Fast Red counterstain will stain the nuclei red to pink and all other tissue elements a pale pink.

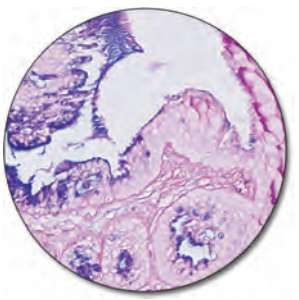


Small intestine stained with Alcian Blue pH 2.5, Code AR160.

Alcian Blue/PAS Stain Kit, Artisan

CE AR169 Ready-to-use 50 tests/100 tests

Alcian Blue/PAS Stain Kit is intended to identify acidic and neutral mucins in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. This procedure clearly separates the acidic and neutral mucins by color and can be used to distinguish all mucins in tissue sections. Alcian Blue pH 2.5 stains the acid mucin blue while the Schiff's reagent stains the neutral mucins pink to red. Mixtures of the two mucins will appear purple due to the positive reactions with both Alcian Blue and Schiff's reagent. This stain can be used with the digestive enzyme, Artisan Alpha-Amylase (Code AR171), for the demonstration of glycogen in tissue.

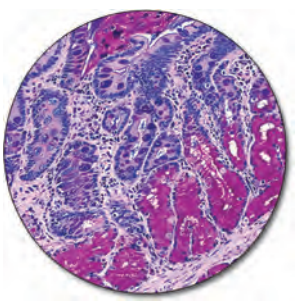


Small intestine stained with Alcian Blue/PAS, Code AR169.

Alcian Blue/PAS/Hematoxylin Stain Kit, Artisan

CE AR178 Ready-to-use 50 tests/100 tests

Alcian Blue/PAS/Hematoxylin Stain Kit is intended to identify acidic and neutral mucins in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. This procedure clearly separates the acidic and neutral mucins by color and can be used to distinguish all mucins in tissue sections. Alcian Blue pH 2.5 stains the acid mucin blue while the Schiff's reagent stains the neutral mucins pink to red. Mixtures of the two mucins will appear purple due to the positive reactions with both Alcian Blue and Schiff's reagent. A hematoxylin counterstain is then applied to impart a blue/black color to the nuclei.

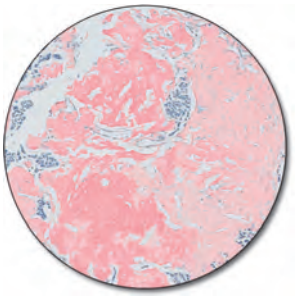


Large intestine stained with Alcian Blue/PAS/Hematoxylin, Code AR178.

Congo Red Stain Kit, Artisan

CE AR161 Ready-to-use 50 tests/100 tests

Congo Red Stain Kit is used to identify amyloid in tissue sections on Artisan Link and Artisan Link Pro Staining Systems. Amyloid is an abnormal protein product that can be found in various pathologic conditions. This stain demonstrates amyloid in pink to dark pink with light (bright field) microscopy or the characteristic apple green bi-refringence with polarized light. Mayers Hematoxylin is used as a counterstain. This stain has been optimized with 8 µm thick tissue sections.

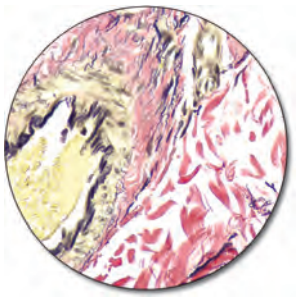


Amyloid stained with Congo Red, Code AR161.

Elastic Stain Kit, Artisan

CE AR163 Ready-to-use 50 tests/100 tests

Elastic Stain Kit is used to identify elastin fibers in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. This stain utilizes Alcoholic Hematoxylin, Ferric Chloride and Lugol's Iodine solutions to stain elastin fibers. Van Gieson's solution is added to differentiate collagen from elastin. Elastin fibers are stained black while remaining tissue elements are stained as follows: nuclei: blue/black, collagen: red, and other tissue elements: yellow.

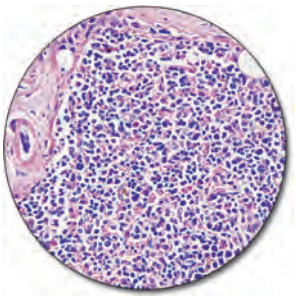


Skin stained with Elastic Stain, Code AR163.

Giemsa Stain Kit, Artisan

CE AR164 Ready-to-use 50 tests

Giemsa Stain Kit is typically used to identify hematopoietic cells (i.e. mast cells, basophils, polymorphoncuclear leucocytes, etc.) in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. In tissue specimens it will stain mast cells, which may be useful in the identification of mast cell tumors. Although Giemsa stains are frequently used to study bone marrow specimens as an aid in assessment of blood disorders, this Giemsa Stain Kit is not designed for this application. The tissue elements are stained as follows: Mast cell granules: purple, basophils: purple, eosinophils: bright pink and lymphocytes: blue. This stain is not recommended for cytology specimens or bone marrow smears.

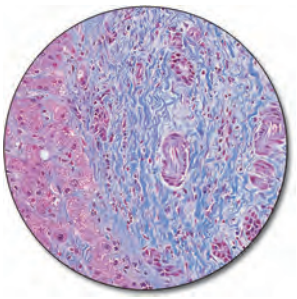


Spleen stained with Giemsa, Code AR164.

Gomori's Blue Trichrome Stain Kit, Artisan

CE AR167 Ready-to-use 50 tests

Gomori's Blue Trichrome Stain Kit is used to identify collagen fibers in liver and kidney tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Gomori's Blue Trichrome Stain is often used to demonstrate increased collagen deposition that is associated with replacement of functional tissue by scar tissue. This stain is useful in the asessment of cirrhosis of the liver in which thickened collagen replaces normal tissue causing liver dysfunction. In Gomori's one-step procedure, the collagen and nuclei are stained blue, cytoplasm, erythrocytes and fibrin are stained pink to red.

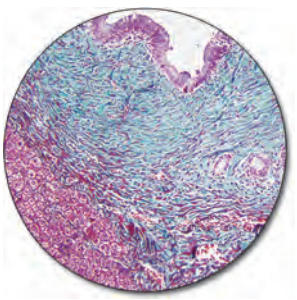


Liver stained with Gomori's Blue, Code AR167.

Gomori's Green Trichrome Stain Kit, Artisan

CE AR166 Ready-to-use 50 tests

Gomori's Green Trichrome Stain Kit is used to identify collagen fibers in liver and kidney tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Gomori's Blue Trichrome Stain is often used to demonstrate increased collagen deposition that is associated with replacement of functional tissue by scar tissue. This stain is useful in the assessment of cirrhosis of the liver in which thickened collagen replaces normal tissue causing liver dysfunction. In Gomori's one-step procedure, the collagen and nuclei are stained green, cytoplasm, erythrocytes and fibrin are stained pink to red.

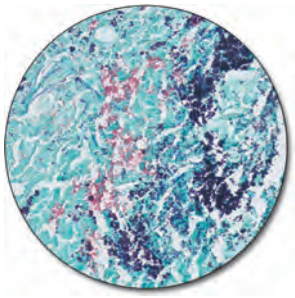


Intestine stained with Gomori's Green, Code AR166.

Gram Stain Kit, Artisan

CE AR175 Ready-to-use 50 tests

Gram Stain Kit is used to identify two distinct groups of microorganisms in tissue sections on Artisan Link and Artisan Link Pro Staining Systems. Those that retain primary dye (Crystal Violet) are called Gram-positive. Those that lose the primary dye during decolorization are called Gram-negative. Mechanisms of Gram-positive organisms retaining the primary stain and Gram-negative organisms losing the primary stain are the result of the chemistry and structure of the organism's cell walls. The tissue elements are stained as follow: Gram-positive organisms: blue, Gram-negative organisms: red and background: varying shades of blue/green.

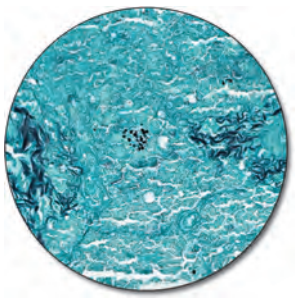


Skin stained with Gram, Code AR175.

Grocott's Methenamine Silver (GMS) Stain Kit, Artisan

CE AR176 Ready-to-use 50 tests/100 tests

Grocott's Methenamine Silver (GMS) Stain Kit is intended to identify fungal organisms and *Pneumocystis jiroveci* (formerly known as *carinii*) in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Fungi and *Pneumocystis jiroveci* are stained black while other tissue elements are stained green. This stain is not recommended for cytology specimens.

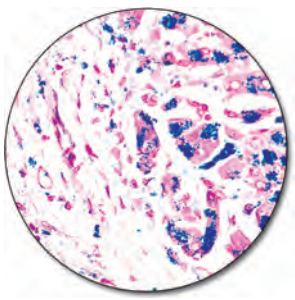


Lung stained with GMS, Code AR176.

Iron Stain Kit, Artisan

CE AR158 Ready-to-use 50 tests/100 tests

Iron Stain Kit is used to identify iron pigment in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Iron is an important component of the human body, especially as a vital constituent of oxygen carrying hemoglobin. Iron is stored in bone marrow, and a loss of iron stores is indicative of anemia. An excess of iron deposited in organs such as liver, spleen, and bone marrow may be a result of hemachromatosis. Ferric deposits: blue, nuclei: red, and the background tissue elements are stained pink. This stain is not recommended for bone marrow smears.

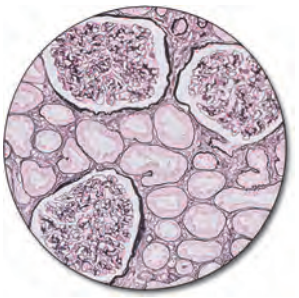


Liver stained with Iron, Code AR158.

Jones' Basement Membrane (PAS-M) Stain Kit, Artisan

CE AR180 Ready-to-use 100 tests

Jones' Basement Membrane Stain Kit is used to identify basement membranes, specifically glomerular and tubular basement membranes in renal tissue sections cut at 2 µm on the Artisan Link and Artisan Link Pro Staining Systems. The Bowman's capsule: black, inner basement membrane: black to gray, nuclei: red, collagen: rose and cytoplasm and other tissue elements: pink.

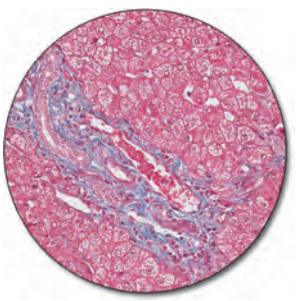


Kidney stained with PAS-M, Code AR180.

Masson's Trichrome Stain Kit, Artisan

CE AR173 Ready-to-use 50 tests/100 tests

Masson's Trichrome Stain Kit is used to identify muscle, collagen fibers, fibrin and erythrocytes in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Masson's Trichrome is often used to demonstrate increased collagen deposition that is associated with replacement of functional tissue by scar tissue. This is useful in the assessment of sclerosis of the liver in which thickened collagen replaces normal tissue causing liver dysfunction. Muscle: red, collagen: blue, fibrin: pink, erythrocytes: red and nuclei: blue/black.

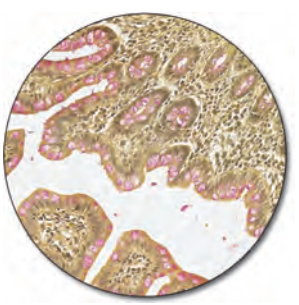


Liver stained with Masson's Trichrome, Code AR173.

Mucicarmine Stain Kit, Artisan

CE AR168 Ready-to-use 50 tests/100 tests

Mucicarmine Stain Kit is used to identify epithelial mucins in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. These mucins are a family of polysaccharides covalently linked to proteins in epithelial cells. The mucins: pink, nuclei: black and other tissue elements: yellow.

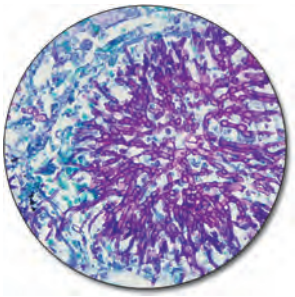


Small intestine stained with Mucicarmine, Code AR168.

PAS-Green Stain Kit, Artisan

CE AR172 Ready-to-use 50 tests/100 tests

PAS-Green Stain Kit is used to identify fungi in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. The most commonly used application is for demonstrating fungi in skin infections. Unlike GMS, the PAS-Green technique will not stain all fungi and yeast. However, fungi typically found in dermatologic specimens are commonly identified using PAS-Green. Positive fungi: magenta and the remaining tissue elements: blue/green.

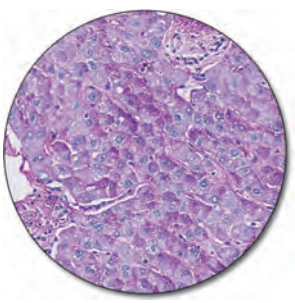


Skin stained with PAS-Green, Code AR172.

Periodic Acid-Schiff (PAS) Stain Kit, Artisan

CE AR165 Ready-to-use 50 tests/100 tests

PAS Stain Kit is used to identify glycogen in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. PAS-positive entities and structures are also numerous in tissue sections. The most common application is for demonstrating glycogen in the liver. Duplicate sections are stained with or without a pre-treatment, such as the Artisan Alpha-Amylase (Code AR171), which is a glycogen-digesting enzyme. Comparing PAS signal intensity in a digested tissue sample with one that has not been digested will give an indication of the amount of glycogen present. A loss of glycogen may be indicative of a metabolic disorder or damage to the liver. Positive glycogen: magenta, nuclei: blue and the background: pink.

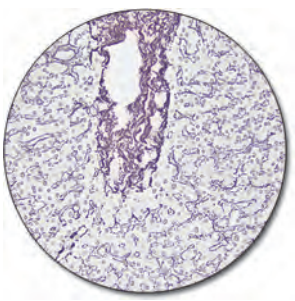


Liver stained with PAS, Code AR165.

Reticulin/No Counterstain Stain Kit, Artisan

CE AR182 Ready-to-use 100 tests

Reticulin/No Counterstain Stain Kit is used to identify a primitive form of connective tissue, called reticulin, in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. An Ammoniacal Silver Nitrate solution is applied to stain the reticulin fibers in tissue. The silver is then reduced and toned to produce a black coloration of the fibers, which are visible by light microscopy. A counterstain may be applied off line.

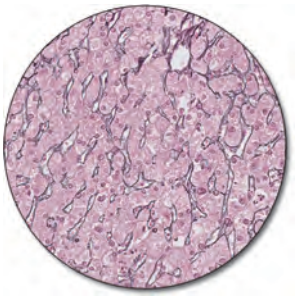


Liver stained with Reticulin/No Counterstain, Code AR182.

Reticulin/Nuclear Fast Red Stain Kit, Artisan

CE AR179 Ready-to-use 50 tests/100 tests

Reticulin/Nuclear Fast Stain Kit is used to identify a primitive form of connective tissue, called reticulin, in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. An Ammoniacal Silver Nitrate solution is applied to stain the reticulin fibers in tissue. The silver is then reduced and toned to produce a black coloration of the fibers, which are visible by light microscopy. Other tissue elements will be stained pink.



Liver stained with Reticulin/NFR, Code AR179.

Warthin-Starry Stain Kit, Artisan

CE AR181 Ready-to-use 50 tests/100 tests

Warthin-Starry Stain Kit is used to identify *Helicobacter pylor*i, spirochetes and other microorganisms in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. *H. pylori* and spirochetes are stained black while the background is stained golden yellow.

Helicobacter stained with Warthin-Starry, Code AR181.

Dako Academy

Introduction to the Dako Academy

Within the Dako Academy, our customers will find everything they need to obtain a comprehensive understanding for the successful use of Dako products. We also provide ample opportunities for proficiency development in a number of specialty areas, utilizing the latest technology in respect to reagents, kits, detection, technique and instrumentation.

The Dako Academy offers an extensive customer support program ranging from on-site operator training sessions, to renowned educational manuals. We host scientific seminars and facilitate the sharing of knowledge, expertise and experience amongst anatomical pathology labs.

The scope of Dako Academy covers:

- Training
- Literature
- e-Learning
- Events

We look forward to seeing you in one of our training facilities or courses.

Providing the right knowledge and skills for improved patient diagnostics

Training

The Dako Academy offers a broad selection of training sessions in order to develop and increase your laboratory staff's confidence and competence. Theoretical education is combined with instruction and hands-on sessions employing Dako reagents and instruments.

Lectures and laboratory sessions are divided and tailor-made for the participants, enhancing the skills of both beginners and experts through small classes and individual attention. For information about course fees and course schedules, please contact your Dako Key Account Manager.

Course Credits

Building on our extensive experience of providing world-class training, Dako has put together a wide variety of courses within pathology that build on each other in order to reach advanced competency levels. Dako course certificates are appreciated by many pathology departments, to document their competence development work.

For courses conducted in our United States facilities, all administered course contact hours are recorded with the American Society of Clinical Laboratory Scientists (ASCLS) and Professional Acknowledgement for Continuing Education (P.A.C.E.®).

Locations

Dako Academy has three major training centers providing state-of-the-art facilities for advanced customer training, one center in Europe, one in the United States and one in Shanghai. For other locations or on-site training, please contact your Dako Key Account Manager.

Please note that some training courses may not be available on all locations.

Dako Academy, Europe

Location: Dako Denmark A/S
Produktionsvej 42
DK-2600 Glostrup, Denmark
E-mail: jette.hviid@agilent.com

Dako Training Academy Center, USA

Location: Agilent Center of Excellence
5301 Stevens Creek Blvd
Santa Clara, CA 95051-7201, USA
E-mail: training.department@agilent.com

Dako Academy, China

Location: Dako Diagnostics (Shanghai) Co., Ltd.
17F, Citic Plaza
No. 1350 North Sichuan Rd.
Shanghai, China
E-mail: jette.hviid@agilent.com

Courses

With a focus on Dako solution areas, the courses conducted on a regular basis in our training centers include:

- Dako Omnis System and Immunohistochemistry
- Autostainer Link 48 System and Immunohistochemistry
- Artisan Link Pro Special Staining System and Special Stains
- Dako CoverStainer (H&E)

You will find further training opportunities under the heading "Training On-Demand."

Dako Omnis System and Immunohistochemistry (IHC)

Course description: Covers the theory and practice of performing immunohistochemical stainings utilizing the Dako Omnis solution. The training consists of a system overview, daily use and advanced training on instrument and workstation software. On completion of this course, trainees will have the expertise to work independently with the system.

Course covers:

- A comprehensive training on the Dako Omnis hardware and software applications
- Laboratory sessions utilizing Dako Omnis system
- Quality Control and troubleshooting sessions
- A review of various RTU antibodies and detection chemistry

Length: Four days

Autostainer Link 48 System and Immunohistochemistry (IHC)

Course description: Covers the theory and practice of performing immunohistochemical stainings using the Autostainer Link 48 system. The lecture component incorporates a review of frequently used IHC stains and their diagnostic implications. Laboratory sessions utilize automated platforms to demonstrate immunostaining performance, quality control, troubleshooting, open system architecture, data transfer and instrument management.

Course covers:

- A comprehensive training on the Autostainer Link hardware and client software applications
- Laboratory sessions utilizing the Autostainer Link 48 system
- A review of various antibodies and detection chemistries, along with quality control and effective troubleshooting methods

Length: Three days

Artisan Link Pro Special Staining System and Special Stains

Course description: Covers the theory and practice of performing histochemical stains on the Artisan Link Special Staining System.

Course covers:

- Lecture session, including a review of frequently used special stains and their diagnostic application, as well as a comprehensive overview of the Artisan hardware and software applications
- Laboratory sessions utilizing Artisan Link Pro for performing a variety of special stains
- Slide reviews and troubleshooting session

Length: Two days

Dako CoverStainer (H&E)

Course description: Includes the theory and practice of performing Hematoxylin and Eosin (H&E) staining on the Dako CoverStainer Reagent Management System (RMS). Lectures incorporate workflow, staining performance, optimization, troubleshooting, maintenance, and hands-on laboratory sessions.

Course covers:

- A comprehensive overview of the Dako CoverStainer hardware and software applications
- Laboratory sessions using Dako CoverStainer
- Effective troubleshooting methods
- A review of basic procedures and recommended laboratory practice associated with high-quality H&E staining

Length: Two days

Training On-Demand

Adding to our regular course portfolio, Dako Academy offers a wide range of on-demand courses in order to meet specific needs. If you do not find what you are looking for, please contact your Dako Key Account Manager.

Immunohistochemistry

Course description: This popular course covers the basic theory and practice of immunohistochemistry.

Who should attend: Basic and intermediate level trained technicians

Course covers:

- Lecture component focuses on principles of pre-treatment, antibody and detection use and basic histology as it relates to quality immunostaining
- Laboratory sessions cover manual and automated immunostaining, troubleshooting and quality control
- Regulatory guidelines issued by the College of American Pathologists (CAP) are also covered for US participants

Length: Three days

pharmDx Introduction Workshop

Course description: Targeted therapy has created the need for reliable and reproducible assays to aid in the assessment of eligible patients. The intent of personalized medicine requires tests that consistently provide reliable, accurate results. The pharmDx family of kits was developed and validated to fulfill this need. As pharmDx results will depend on strict adherence to protocols, workshop participants will be taken step-by-step through the entire assay procedure. Participants will also be introduced toapproved scoring methods for achieving results with minimal intra and inter-laboratory variability.

Who should attend: Laboratory technicians and pathologists

Course covers:

- One pharmDx assay is covered per workshop
- Workshops will focus on either interpretation or technical components

Length: One day

Interpretation Workshop

Course description: Skilled pathologists facilitate this workshop in a forum setting, utilizing both virtual images and microscope slides. Participants are encouraged to bring additional cases from their respective laboratories.

Who should attend: Clinical pathologists

Course covers:

- Detailed instruction in the practical use of assays, interpretative parameters and interactive assessment of provided sample cases

Length: One day

Training On-Demand (continued)

Technical Workshop

Course description: Includes a lecture on the biology of the assay target and description of test components. Adherence to protocols is strongly emphasized throughout the workshop. Microscope slides are used to demonstrate appropriate results and potential staining artifacts.

Who should attend: Immunotechnicians

Course covers:

- Pharmacodiagnostics overview
- Review of kit components and protocols
- Hands-on laboratory sessions utilizing the Autostainer Link 48 or manual staining
- Troubleshooting

Length: One day (immunohistochemistry)
Two days (in situ hybridization)

FISH/CISH/ISH

Course description: This course presents basic in situ hybridization training.

Who should attend: Technicians performing or expecting to perform in situ hybridization techniques

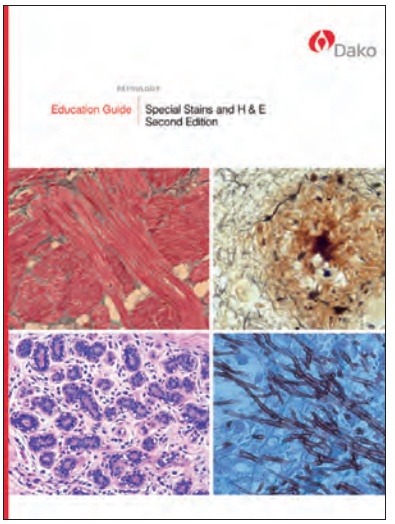
Course covers:

- Lecture component covers molecular pathology theory, denaturation, hybridization and detection
- The laboratory sessions include manual as well as automated hybridization, and methods for detection of hybridized probes

Length: Three days

Literature

Dako offers educational materials and guidebooks to ensure your success in using our products. You can download it from our Web site or contact your Dako Key Account Manager for further information.



Education Guides

Dako Education Guides are well-known for providing valuable insights into the theoretical basis and methodology for different disciplines, including interpretation of staining results.

- Immunohistochemical Staining Methods, Sixth Edition (2013)
- The Illustrated Guide to Bone Marrow Diagnosis, Second Edition (2009)
- Demasking of Antigens, Second Edition (2008)
- Special Stains and H&E, Second Edition (2010)

Interpretation Manuals and Guidelines

Based on experience and guidelines from renowned experts, we have gathered interpretation advice and guidelines to help achieve reliable and reproducible results. Utilization of the guidelines will ensure that your laboratory achieves quality results.

- HercepTest - Breast Cancer or Gastric Cancer
- EGFR pharmDx
- c-Kit pharmDx
- ER/PR pharmDx
- *HER2* IQFISH pharmDx
- *HER2* FISH pharmDx
- *HER2* CISH pharmDx
- FLEX RTU Atlas of Stains, Fourth Edition
- Atlas of Special Stains

Procedures

In order to minimize the possibilities for error, a quick and easy solution is to use our step-by-step procedures. The use of these procedures has proven efficient for many laboratories.

- Immunohistochemical staining
- General ELISA procedure
- Immunovisualization of protein blots
- *HER2* IQFISH pharmDx
- *HER2* CISH pharmDx
- FISH procedures for cytology and histology samples
- CISH procedures for manual use, Autostainer, Autostainer Plus and Autostainer Link 48

Literature (continued)

Product Manuals

To facilitate work tasks and procedures for laboratory personnel when interacting with our instruments, we provide a complete series of easy to use manuals for all our instruments. Logically structured and available in nine different languages, the three types of manuals will quickly provide the information for which you are looking.

- User Guides
- Quick Start Guides
- Handbooks

White Papers, Reviews, Studies and Webinars

In close collaboration with experts in the field, we publish white papers, reviews and studies on various pathology topics and related technologies. These publications are available online at www.dako.com.

- Prostate Pathology Review
- IQFISH White Paper
- Dynamic Gap Staining
- Standards for IHC Controls, Webinar
- Breast Cancer Diagnosis: Past, Present and Future

e-Learning

We offer multiple training opportunities to our customers, one of those opportunities includes easy-to-use, interactive e-Learning programs. Dako e-Learning programs are designed to quickly provide laboratory technicians, pathologists and scientists worldwide with accurate information on how to achieve reliable results using Dako products.

HercepTest e-Learning

This HercepTest e-Learning program is developed to supply laboratory technicians and pathologists with accurate and fast knowledge of how to achieve reliable staining results and accurate interpretation with HercepTest.

The e-Learning program includes:

- A general introduction to HER2 testing and biology
- Description of HercepTest kits
- Overview of the complete manual and automated laboratory procedures
- Interpretation guidelines
- Interpreting artifacts
- Troubleshooting
- Tests for personal training as a HercepTest user

CISH e-Learning

This e-Learning program is developed to supply laboratory technicians and pathologists with accurate and fast knowledge of how to achieve reliable staining and accurate interpretation.

The e-Learning program includes:

- General introduction to the CISH technology
- Product presentation
- Photo presentation of the complete laboratory procedure
- Interpretation guide
- Q&A
- Troubleshooting section
- Test for personal evaluation for procedure and interpretation
- Test for Web-based certification for the procedure and interpretation

Events

We support a wide number of events in the pathology community to facilitate knowledge sharing and feedback opportunities for our customers. We are also renowned for supporting and arranging opportunities for scientists and laboratory personnel to meet and discuss hands-on findings and research results.

User Group Meetings

Having lasting partnerships and listening to our customers have always been priorities for us. Through our field personnel we strive to provide our customers with opportunities to share knowledge with each other and with us.

Our user group meetings allow customers to provide direct feedback and suggestions on further improvement of Dako solutions and customer support. These meetings are crucial in our efforts to develop products that meet customer-specific requirements.

We've been listening!

Service and Support

Introduction to Service and Support

Service and Support has a dedicated team of highly skilled and experienced service professionals ready to work with you to improve your laboratory workflow. We are committed to ensure that our customers feel confident in using our products by providing state-of-the-art service and support.

The Service and Support offerings include:

- Deployment Services
- Instrument Services
- Application and Technical Support
- Instrument Service Agreements

Deployment Services ensures that Dako systems are installed correctly and perfectly integrated into the facility's network, Instrument Services see to that instruments run smoothly and in the event of any problems, resolves it promptly. Application and Technical Support provide on-site training, optimize software performance and ensure fast troubleshooting.

As a manufacturer and supplier of instruments, software and reagents, Dako provides its Field Personnel with the latest tools and all necessary training in order to get the most out of our products. Using Dako Service and Support, you as a customer can feel confident that your laboratory always performs at its best.

Instrument Service Agreements facilitate the budget process by providing pre-packaged service solutions in different price levels.

When you need us, we will be there

Deployment Services

Our deployment team has a long history of service excellence. Software installation and implementation of advanced systems all over the world has provided us with an experience level that few in the industry can match. We have an extensive practice of complex Local Area Network (LAN) and Laboratory Information System (LIS) integrations, and we have a thorough knowledge base regarding possible IT security concerns and how to solve them.

Deployment Services include:

- Presite Inspection
- Installation Qualification
- Operational Qualification
- Connectivity

Presite Inspection

To prepare for a quick and smooth installation, the Presite Inspection service provides invaluable assistance. Potential surprises are avoided if the installation site has been inspected. Everything that needs to be in place for a trouble-free installation is investigated.

This includes physical location and support, water and electrical supply, waste water dispense, ventilation and light. The Presite Inspection often render in recommendations that will further improve ease of use and productivity of the instrument.

Installation Qualification

When an instrument is installed the Installation Qualification (IQ) process makes sure that this is done according to Dako specifications. The IQ verifies that all parts shipped were received and that software updates are compatible with the configuration of the instrument.

By performing an IQ you are certain that the instrument performs correctly and comply with regulatory standards. An IQ check is performed in connection with the installation of a new instrument and is also recommended if a new functionality is added, e.g. through a software upgrade, and whenever the instrument is relocated.

Operational Qualification

An Operational Qualification (OQ) process ensures that the instrument has the necessary accuracy in order to meet performance and quality standards. This also ensures that the instrument meet specific performance criteria by using a controlled test environment. An OQ check is performed in connection

with the installation of a new instrument and is also recommended if a new functionality is added, e.g. through a software upgrade, and whenever the instrument is relocated. An OQ check can also be performed with regular time intervals according to your Service Contract to guarantee optimal instrument performance.

Connectivity

The middleware solution – DakoLink – enables Dako instruments to connect to other laboratory instruments and to the laboratory and hospital information systems. Integration into hospital LIS and LAN in order to exchange information for test cases, requires a thorough understanding of the complexity and a long experience of solving

similar communication issues. Dako has long standing relationships with all LIS vendors on the market and Dako Deployment Services ensures that software integration is handled quickly and professionally.

Instrument Services

Dako Instrument Services provides fast and professional support when hands-on assistance is required by our customers.

A global network of field personnel, all of which are regularly trained on the latest products and service techniques, ensure that we can resolve any issue you may have in the fastest way possible.

Dako is widely recognized for our high standards for how to deliver service and support. This is a reputation that we intend to keep regardless of whether we provide support remotely, over the phone or through hands-on assistance.

Instrument Services include:

- Planned Maintenance
- Corrective Maintenance
- Software Upgrades

Planned Maintenance

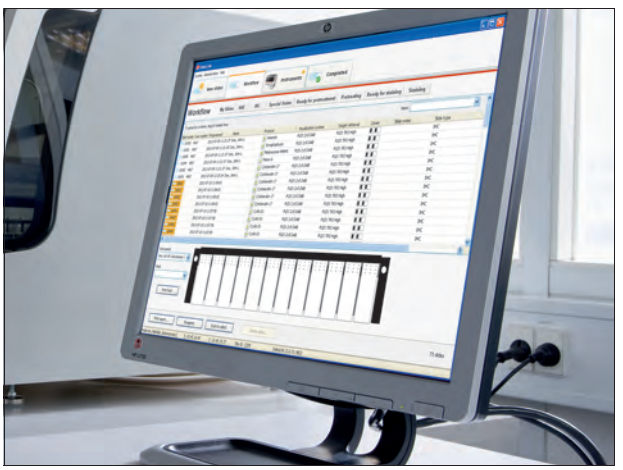
Planned Maintenance (PM) covers your instrument's routine maintenance needs and is scheduled based on usage and time. Dako PMs are of course planned so that they do not interfere with laboratory activities, and at the same time you can be sure that your instrument is always running at peak performance.

Corrective Maintenance

Corrective Maintenance offers you the security that your laboratory requires in the event of any unforeseen problems. Our Service Engineers have excellent troubleshooting expertise that includes both fluidics and electronics combined with strong IT skills. This, combined with short response times, keeps instrument downtime to a minimum.

Software Upgrades

The key enabler for managing Dako products in the laboratory is the DakoLink Path software. It links instruments and connects them to the laboratory information system while managing the performance of the individual instruments. On a regular basis, new functionality is added and new reagents are released which require upgrades to the software. These software upgrades are carried out as PMs in order not to interfere with laboratory activities.



Application and Technical Support

We have been a leader within antibody-based cancer diagnostics for almost 50 years and our support to our customers when it comes to staining performance and optimizing reagent protocols is still recognized as the best in the market. We have a highly committed support organization that always provides you with professional and yet personal service.

With an extensive geographic presence, our local staff is always within easy reach. No matter where you are in the world, your dedicated Application Specialist or Technical Support Representative is just a phone call or e-mail away.

Application and Technical Support include:

- Protocol Optimization
- Protocol Design
- Product Demonstrations

Protocol Optimization

Our Application Specialists and Technical Support Representatives are experts in troubleshooting and optimization, working closely together with you to ensure that our reagents operate at peak performance in your laboratory.

When you contact us, we know the importance of providing you with quick advice and competent troubleshooting relating to the use of our systems and reagents. Dako is organized worldwide with highly experienced staff that is able to assist you in choosing the right products and suggest how to optimize the performance of your protocols.

Protocol Design

Make use of our unrivaled competence when it comes to choosing the correct reagents and combine them in the best possible way. We can perform assays in our laboratories in Carpinteria, USA and in Glostrup, Denmark or you can just send us your slides directly and we will optimize your protocols to your satisfaction.

Product Demonstrations

We can provide you with all the documentation that is needed in order to get a good understanding for the advantages you will get by choosing us as your supplier. Nothing compares to hands-on experience where you and your colleagues can actually use the instrument and the reagents you are interested in in your own laboratory. Therefore we offer Product Demonstrations directly at customer sites for longer or shorter periods.

Instrument Service Agreements

To continue to get the most out of your investment you can extend the benefits from the standard instrument warranty.

Dako Instrument Service Agreements can be found in three different Service Levels in order to meet your laboratory's unique requirements:

- Basic
- Essential
- Comprehensive

Each Service Level include different services and to ensure productivity and availability for critical systems, We can offer fast response times and priority handling for technical support and repairs. An Instrument Service Agreement can cover a single instrument or a complete set up of Dako instruments.

Instrument Service Agreements are also ideal in order to avoid unplanned expenses and as such a very cost-effective way to maximize your instrument's performance, matching your requirements with your budget constraints.

For more information on our Instrument Service Agreements and to discuss what Service level that would suit you the best, please contact your Dako Key Account Manager.

General
Product Information

Monoclonal Antibodies

We produce a wide range of monoclonal mouse and monoclonal rabbit antibodies. Each antibody has been carefully selected on the basis of its value, either for research or for the analysis of pathological human cells by immunohistochemistry.

Tissue Culture Antibodies. With only a few exceptions, Dako monoclonal antibodies are produced in tissue culture. This gives advantages in the use of the antibodies. For example, background problems are virtually absent with such reagents because all the mouse immunoglobulin molecules are directed against the target antigen.

Specificity. Dako monoclonal antibodies are extensively screened on a multitude of tissue sections or other relevant biological material to ascertain that they possess the necessary specificity and give consistent, strong labeling reactions.

Solvent. Dako monoclonal antibodies are, generally, supplied in the liquid form. The majority of unconjugated antibodies are supplied as tissue culture supernatants containing 0.05 mol/L Tris/HCl, pH 7.2, and 15 mmol/L sodium azide. The azide can be removed by dialysis or gel filtration if it interferes with the use of the antibody. However, after removal of the azide, the antibody must be stored frozen.

Storage. 2-8 °C.

Further Information. A package insert is supplied with each vial of monoclonal antibody. It states intended/recommended use, clone, isotype, specificity, as well as recommended staining procedure when applicable. Package inserts are also avaliable on www.dako.com.

The products require no hazard labeling.

Polyclonal Antibodies

Since 1966 we have produced a continually widening range of polyclonal antibodies. An extensive knowledge of protein chemistry and immunochemistry, careful selection of animals for immunization, and optimal, long-term immunization schemes have formed the basis of the high quality of our products.

Most of the polyclonal antibodies are *produced in rabbits*.
This provides several advantages:

Human antibodies reacting with rabbit immunoglobulins occur rarely. Therefore, rabbit antibodies can be used without risk of non-specific reactions even in sensitive techniques.

A batch of antibody will always consist of the pooled sera from a large number of animals. This eliminates the possibility of a single atypical antibody predominating and gives minimal batch-to-batch variation. Rabbit antibodies exhibit very broad precipitation curves, so precipitation will occur even at high antigen or antibody excess.

Immunoglobulin Fractions. All Dako polyclonal antibodies are offered in the form of immunoglobulin fractions with a few exceptions mentioned under the individual product. The immunoglobulin fraction is prepared by salting out and ion exchange chromatography. The elimination of bulk proteins gives a stable product with reduced background in gel precipitation techniques, and minimal non-specific reactions in other applications.

Affinity-Isolated Antibodies. Dako affinity-isolated antibodies are prepared by immunoaffinity chromatography, using antigens coupled to a solid matrix. The elution and adsorption techniques used, guarantee antibodies of high affinity.

Specificity. Monospecificity of Dako polyclonal antibodies is obtained by the use of highly purified antigens for immunization. Traces of sometimes unavoidable, unwanted antibodies are removed by liquid or, in the majority of cases, solid-phase absorption. Crossed immunoelectrophoresis, with its high sensitivity and resolving power, is included in our specificity controls. For this test, antibody is used at a very high concentration (12.5 microliters per square cm of gel).
For a steadily increasing number of antibodies the specificity is also ascertained by ELISA. Antibodies which are specified "for immunohistochemistry only" have not necessarily been subjected to the above specificity tests.

Antibody Titre. The titre variation between batches of uncon-jugated polyclonal antibodies is less than 10%. The titre of most antibodies is measured by single radial immunodiffusion (SRI) (1). The SRI titre states how many milligrams of antigen which is precipitated in an agarose gel by 1 L of antibody.

Application. Because of their high purity and avidity, Dako unconjugated polyclonal antibodies are generally well-suited for a variety of techniques.

In addition, our immunohistochemistry laboratory as well as numerous investigators have shown for a large number of Dako unconjugated polyclonal antibodies, that they give highly specific immunohistochemical reactions when used as primary antibodies in *immunofluorescence or immunoenzymatic techniques*. The intended/recommended use of each antibody is stated in the package insert.

Polyclonal Antibodies (continued)

Protein Concentration. For Dako concentrated, unconjugated polyclonal rabbit antibodies (immunoglobulin fractions) the protein concentration is stated on the label of each vial.

Solvent. All antibodies are offered in liquid form. For unconjugated antibodies in the form of immunoglobulin fractions, the solvent is 0.1 mol/L sodium chloride, 15 mmol/L sodium azide.

Storage. We recommend that our antibodies be stored at 2-8 °C. When stored in this manner, loss of antibody activity for unconjugated antibodies is approximately 2% per year.

Further Information. A package insert is supplied with each vial of polyclonal antibody. It states immunogen and specificity, and gives additional product-specific information. Package inserts are also available on www.dako.com.

The products require no hazard labeling.

Reference

1. Becker W. Determination of antisera titres using the single radial immunodiffusion method. Immunochem 1969;6:539-46.

Biotinylated Antibodies

Characterization. Dako biotinylated antibodies have been prepared according to principles described by Bayer and Wilchek (1). The antibodies are covalently linked to biotin using an aminocaproic acid spacer arm. By dialysis or gel filtration, free biotin is removed from the conjugates. An optimal biotin/protein ratio ascertains a high activity of the biotinylated antibodies without giving non-specific reactions.

Application. Dako biotinylated antibodies in conjunction with avidin and streptavidin conjugates are typically used for immunohistochemistry. Detailed working procedures for immunohistochemical staining methods using Dako biotinylated secondary antibodies are available on request. In addition, these reagents are useful for immunoblotting and ELISA.

Working dilutions should be optimized for each individual system. However, for immunohistochemistry the dilutions are usually in the range of 1:200-1:800, for immunoblotting about 1:1000-1:4000, and for ELISA about 1:5000-1:20 000.

Solvent. The biotinylated antibodies are offered in liquid form containing 15 mmol/L sodium azide.

Storage. 2-8 °C.

Further Information. A package insert is supplied with each vial of biotinylated antibody. It provides product-specific details. Package inserts are also available on www.dako.com.

The products require no hazard labeling.

Reference

1. Bayer E, Wilchek M. The use of the avidin-biotin complex as a tool in molecular biology. Methods Biochem Anal 1980;26:1-45.

Alkaline Phosphatase-Conjugated Antibodies

Characterization. Dako alkaline phosphatase-conjugated antibodies have been prepared by a modified one-step glutaraldehyde method from affinity-isolated antibodies and calf intestinal alkaline phosphatase (AP) of the highest specific enzymatic activity available. By gel filtration, the majority of unconjugated antibody molecules and free alkaline phosphatase have been removed from the conjugates.

Application. Typical applications of Dako alkaline phosphatase-conjugated antibodies are in immunohisto-chemistry, in ELISA and in immunoblotting techniques. Working dilutions should be optimized for each individual system, but are usually in the range 1:20-1:100 for immunohistochemistry, and about 1:500-1:4000 for ELISA and immunoblotting.

Solvent. The conjugates are offered in liquid form in Tris-buffered saline, 15 mmol/L sodium azide, pH 7.2. They are stabilized with 1% bovine serum albumin or 40% glycerol.

Storage. 2-8 °C.

Substrates and Couplers for Alkaline Phosphatase Staining. For staining of tissue sections and cell smears, the substrates naphthol AS-MX phosphate or naphthol AS-BI phosphate are recommended together with Fast Red TR, Fast Blue BB, or hexazotized New Fuchsin as couplers (1). Levamisole at a concentration of 1 mmol/L may be added to the staining solution to inhibit endogenous alkaline phosphatases in tissues and cells.

Alkaline Phosphatase-Conjugated Antibodies (continued)

For immunoblotting, the substrates and couplers mentioned above for staining of tissues and cells can be used. Another good combination is 5-bromo-4-chloro-indolyl phosphate as substrate and nitro blue tetrazolium as coupler (2).

For ELISA, 4-nitrophenyl phosphate is the substrate most often used (3).

Further Information. A package insert is supplied with each vial of conjugate. It provides product-specific details. Package inserts are also available on www.dako.com.

The products require no hazard labeling.

References

1. Cordell JL, Falini B, Erber WN, Ghosh AK, Abdulaziz Z, Macdonald S, et al. Immunoenzymatic labeling of monoclonal antibodies using immune complexes of alkaline phosphatase and monoclonal anti-alkaline phosphatase (APAAP complexes). J Histochem Cytochem 1984;32:219-29.
2. Blake MS, Johnston KH, Russell-Jones GJ, Gotschlich EC. A rapid sensitive method for detection of alkaline phosphatase-conjugated anti-antibody on Western blots. Anal Biochem 1984;136:175-9.
3. Kan LVP, Verspaget HW, Pena AS. ELISA assay for quantitative measurement of human immunoglobulins IgA, IgG, and IgM in nanograms. J Immunol Methods 1983;57:51-7.

Peroxidase-Conjugated Antibodies

Characterization. Dako peroxidase-conjugated antibodies have been prepared from the chromatographically purified immunoglobulin fraction of antisera or affinity-isolated antibodies and horseradish peroxidase (HRP) of the highest specific enzymatic activity available. The coupling reaction is a modification, developed at Dako, of the two-step glutaraldehyde method of Avrameas and Ternynck (1). The reaction is gentle, efficient, highly reproducible and gives conjugate molecules of molecular weight predominantly 200 000-240 000.

Specificity. The specificity of the antibodies is ascertained by crossed immunoelectrophoresis and, when applicable, by ELISA.

Application. Dako peroxidase conjugates are generally used for light and electron microscopy, enzyme-linked immunosorbent assays (ELISA), immunoblotting techniques, and amplification of immunoprecipitates in agarose gels. Working dilutions should be optimized for each individual system, but are usually for histological work in the range 1:20-1:200, for ELISA 1:500-1:2000, and for enzymatic amplification of immunoprecipitates and immunoblotting about 1:100-1:1000. Intended/recommended use and recommended dilutions are stated in the package insert.

Solvent. Peroxidase conjugates are sold in liquid form with preservative added.

Storage. Dako peroxidase-conjugated antibodies are very stable if kept undiluted at 2-8 °C.

Chromogens for Peroxidase Staining. For light and electron microscopy, diaminobenzidine (DAB) is recommended. Considerable enhancement of staining intensity can be obtained very simply by using DAB in conjunction with imidazole and heavy metal salts (2,3). For immunoblotting, tetramethylbenzidine (TMB) used as described by McKimm-Breschkin (4) produces a stable color of high intensity. The most sensitive stain for amplification of immunoprecipitates in agarose gels is 3-amino-9-ethylcarbazole (AEC) (5,6). DAB (7), TMB (4) and AEC can with advantage be prepared as stock solutions, thus easing the work, and especially for DAB, eliminating possible staining variations due to variable amounts of impurities present in small aliquots of DAB powder. Hydrogen peroxide should not be added to the staining solution until shortly before use.

Even at very high dose levels - 4-8 g/kg - DAB produces only minimal toxic effects in male rats and male mice, and has no effects in female mice (8).

For ELISA, orthophenylenediamine (OPD) and 3,3'-5,5'- tetramethylbenzidine (TMB) are good and very sensitive chromogens.

Further Information. A package insert is supplied with each vial of conjugate. It provides product-specific details. Package inserts are also available on www.dako.com.

The products require no hazard labeling.

References

1. Avrameas S, Ternynck T. Peroxidase labelled antibody and Fab conjugates with enhanced intracellular penetration. Immunochemistry 1971;8:1175-9.
2. Trojanowski JQ, Obrocka MA, Lee VMY. A comparison of eight different chromogen protocols for the demonstration of immunoreactive neurofilaments or glial filaments in rat cerebellum using the peroxidase-antiperoxidase method and monoclonal antibodies. J Histochem Cytochem 1983;31:1217-23.
3. Scopsi L, Larsson LI. Increased sensitivity in peroxidase immunocytochemistry. A comparative study of a number of peroxidase visualization methods employing a model system. Histochemistry 1986;84:221-30.
4. McKimm-Breschkin JL. The use of tetramethylbenzidine for solid phase immunoassays. J Immunol Methods 1990;135: 277-80.
5. Graham RC, Lundholm U, Karnovsky MJ. Cytochemical demonstration of peroxidase activity with 3-amino-9-ethyl-carbazole. J Histochem Cytochem 1965;13:150-2.
6. Broe MK, Ingild A. Amplification of immunoprecipitates in agarose gels by horseradish peroxidase-labelled antibody. Scand J Immunol 1983;17:255-8.
7. Pelliniemi LJ, Dym M, Karnovsky MJ. Peroxidase histochemistry using diaminobenzidine tetrahydrochloride stored as a frozen solution. J Histochem Cytochem 1980;28:191-2.
8. Weisburger EK, Russfield AB, Homburger F, Weisburger JH, Boger E, Van Dongen CG, et al. Testing of twenty-one environmental aromatic amines or derivatives for long-term toxicity or carcinogenicity. J Environ Pathol Toxicol 1978;2:325-56.

Fluorescein-Conjugated Antibodies for Tissue Staining

Dako fluorescein-conjugated antibodies for tissue staining meet the stringent requirements suggested at international conferences on standardization in immunofluorescence.

Characterization. Chromatographically purified immunoglobulin fractions of antisera or purified monoclonal antibodies are conjugated with fluorescein isothiocyanate isomer 1 (FITC). After conjugation, unreacted FITC is completely removed by gel filtration on Sephadex G-25. A further purification is carried out by ion exchange chromatography. This process removes unconjugated antibody molecules and antibody molecules to which more than 4 molecules of FITC are attached. Thus, our conjugates consist of optimally labeled antibody molecules, and require no absorption with tissue powders prior to use.
The fluorescein/protein ratio, measured as the absorbance ratio A 495 nm/A 278 nm, is 0.65 ± 0.05 for all preparations, corresponding to a molar FITC/protein ratio of 2.3.

Specificity and Performance Testing. Before conjugation, the specificity of the antibodies is ascertained by crossed immuno-electrophoresis and ELISA, when applicable. After conjugation, the specificity and fluorescence are controlled by direct and indirect immunofluorescence methods.

Working Dilutions. Working dilutions of conjugates will depend on the type and the condition of the fluorescence microscope being used, and also on the tissue under investigation. For these reasons it is advisable for each individual laboratory to test various dilutions of a conjugate in order to find the optimal dilution. On human bone marrow/tonsil, the working dilutions of FITC-conjugated anti-human IgA, IgG and IgM are typically 1:20-1:40. No non-specific fluorescence is seen at a dilution of 1:20. For the demonstration of human antibodies to nuclear antigen (ANA) the working dilutions of FITC-conjugated anti-human IgA and IgM are typically 1:40-1:100, and the fluorescence is still positive at a dilution of 1:1000.

Solvent. For fluorescein-conjugated polyclonal antibodies, the solvent is phosphate-buffered saline, 15 mmol/L sodium azide, pH 7.2. For fluorescein-conjugated monoclonal antibodies the solvent is Tris-buffered saline, 15 mmol/L sodium azide, pH 7.2. They are stabilized with 1% bovine serum albumin.

Storage. Fluorescein-conjugated antibodies should be stored in the dark at 2-8 °C.

During storage a small precipitate may occasionally develop causing a fine granular non-specific staining. By a simple filtration (0.22 µm cellulose acetate filter), the original high quality of the conjugate will be restored. Conjugates should not be stored in diluted form.

Retardation of Fluorescence Fading. During microscopy a pronounced fading of the fluorescence emitted from FITC occurs. The addition of various chemicals to the mountant used for the immunofluorescence preparations is an efficient, simple and inexpensive means of retarding fading. For a detailed discussion of the preparation and features of anti-fading mountants, please see references 1, 2 and 3.

Further Information. A package insert is supplied with each vial of conjugate. It provides product-specific details. Package inserts are also available on www.dako.com.

The products require no hazard labeling.

References

1. Krenik KD, Kephart GM, Offord KP, Dunette SL, Gleich GJ. Comparison of antifading agents used in immunofluorescence. J Immunol Methods 1989;117:91-7.
2. Valnes K, Brandtzaeg P. Retardation of immunofluorescence fading during microscopy. J Histochem Cytochem 1985;33:755-61.
3. Longin A, Souchier C, French M, Bryon P-A. Comparison of antifading agents used in fluorescence microscopy: image analysis and laser confocal microscopy study. J Histochem Cytochem 1993;41:1833-40.

Rhodamine-Conjugated Antibodies for Tissue Staining

Characterization. Dako rhodamine-conjugated antibodies have been prepared according to principles described by McKinney and Spillane (1). The chromatographically purified immunoglobulin fraction of antiserum is conjugated with tetramethylrhodamine isothiocyanate isomer R (TRITC). After conjugation, unreacted TRITC is removed by gel filtration. A further purification is carried out by ion exchange chroma-tography to remove unconjugated and overconjugated antibody molecules. The rhodamine/protein ratio, measured as the absorbance ratio A 554 nm/ A 278 nm, is 0.40 ± 0.05 for all preparations.

Specificity and Performance Testing. Before conjugation, the specificity of the antibodies is ascertained by crossed immuno-electrophoresis and ELISA, when applicable. After conjugation, the specificity and fluorescence are controlled by direct and indirect immunofluorescence methods.

Application. Rhodamine conjugates are useful in conjunction with fluorescein conjugates for double staining of cells. Fading is less pronounced than for fluorescein conjugates.

Solvent. For rhodamine-conjugated antibodies the solvent is phosphate-buffered saline, 15 mmol/L sodium azide, pH 7.2.

Storage. Rhodamine-conjugated antibodies should be stored in the dark at 2-8 °C. Conjugates should not be stored in diluted form.

Further Information. A package insert is supplied with each vial of conjugate. It provides product-specific details. Package inserts are also available on www.dako.com.

The products require no hazard labelling.

Reference

1. McKinney RM, Spillane JT. An approach to quantitation in rhodamine isothiocyanate labeling. Ann NY Acad Sci 1975;254:55-64.

Indexes

Alphabetical Index

This index lists all products available from Dako. More detailed information appears on the pages mentioned for each individual product.
For antibody clones, see pp 254-255.

Abbreviations:

a	**Anti-**
Gp	**Guinea pig**
Gt	**Goat**
Hu	**Human**
Mo	**Mouse**
Rb	**Rabbit**
Rt	**Rat**
Sw	**Swine**

Labels:

AP	**Alkaline phosphatase**
Biotin	**Biotin with a 7-atom spacer arm**
FITC	**Fluorescein isothiocyanate**
HRP	**Horseradish peroxidase**
TRITC	**Tetramethylrhodamine isothiocyanate**

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CS704		**Cover Glass, Dako, 24 x 50 mm**	193
CR121		**Cover Glass, 24 mm x 60 mm**, for automated coverslippers	193
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P0159	Rb a	**Cow Immunoglobulins/HRP**	123
M3617	Mo a Hu	**COX-2**, Clone CX-294	88
K1500		**CSA (Catalyzed Signal Amplification) System** (150 Tests)	136
K1497		**CSA II (Catalyzed Signal Amplification) System, Biotin Free**	136
K1501		**CSA II Rabbit Link**	136
M3642	Rb a Hu	**Cyclin D1**, Clone EP12	88
GA083	Rb a Hu	**Cyclin D1**, Clone EP12, Ready-to-Use, FLEX, for Dako Omnis	30 88
IR083	Rb a Hu	**Cyclin D1**, Clone EP12, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 88
IS083	Rb a Hu	**Cyclin D1**, Clone EP12, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 88
		Cyclooxygenase-2, see: COX-2	
M3515	Mo a Hu	**Cytokeratin**, Clone AE1/AE3	89
GA053	Mo a Hu	**Cytokeratin**, Clone AE1/AE3, Ready-to-Use, FLEX, for Dako Omnis	30 89
IR053	Mo a Hu	**Cytokeratin**, Clone AE1/AE3, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 89
IS053	Mo a Hu	**Cytokeratin**, Clone AE1/AE3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 89
M0821	Mo a Hu	**Cytokeratin**, Clone MNF116	89
M7237	Mo a Hu	**Cytokeratin 5/6**, Clone D5/16 B4	89
GA780	Mo a Hu	**Cytokeratin 5/6**, Clone D5/16 B4, Ready-to-Use, FLEX, for Dako Omnis	30 89
IR780	Mo a Hu	**Cytokeratin 5/6**, Clone D5/16 B4, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 89
IS780	Mo a Hu	**Cytokeratin 5/6**, Clone D5/16 B4, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 89
IC004	a Hu	**Cytokeratin 5/6 + AMACR + Cytokeratin HMW**, Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	119
M7018	Mo a Hu	**Cytokeratin 7**, Clone OV-TL 12/30	90
GA619	Mo a Hu	**Cytokeratin 7**, Clone OV-TL 12/30, Ready-to-Use, FLEX, for Dako Omnis	30 90
IR619	Mo a Hu	**Cytokeratin 7**, Clone OV-TL 12/30, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 90
IS619	Mo a Hu	**Cytokeratin 7**, Clone OV-TL 12/30, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 90
M3652	Rb a Hu	**Cytokeratin 8/18**, Clone EP17/EP30	90
IR094	Rb a Hu	**Cytokeratin 8/18**, Clone EP17/EP30, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 90
M7002	Mo a Hu	**Cytokeratin 10**, Clone DE-K10	90
M7003	Mo a Hu	**Cytokeratin 10/13**, Clone DE-K13	90
M7046	Mo a	**Cytokeratin 17**, Clone E3	90
IR620	Mo a	**Cytokeratin 17**, Clone E3, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 90
IS620	Mo a Hu	**Cytokeratin 17**, Clone E3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 90
M7010	Mo a Hu	**Cytokeratin 18**, Clone DC 10	90
GA618	Mo a Hu	**Cytokeratin 18**, Clone DC 10, Ready-to-Use, FLEX, for Dako Omnis	30 90
IR618	Mo a Hu	**Cytokeratin 18**, Clone DC 10, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 90
IS618	Mo a Hu	**Cytokeratin 18**, Clone DC 10, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 90
M0888	Mo a Hu	**Cytokeratin 19**, Clone RCK108	91
GA615	Mo a Hu	**Cytokeratin 19**, Clone RCK108, Ready-to-Use, FLEX, for Dako Omnis	30 91
IR615	Mo a Hu	**Cytokeratin 19**, Clone RCK108, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 91
IS615	Mo a Hu	**Cytokeratin 19**, Clone RCK108,Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 91
M7019	Mo a Hu	**Cytokeratin 20**, Clone $K_2$20.8	91
GA777	Mo a Hu	**Cytokeratin 20**, Clone $K_2$20.8, Ready-to-Use, FLEX, for Dako Omnis	30 91
IR777	Mo a Hu	**Cytokeratin 20**, Clone $K_2$20.8, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 91
IS777	Mo a Hu	**Cytokeratin 20**, Clone $K_2$20.8, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 91
M0630	Mo a Hu	**Cytokeratin, High Molecular Weight**, Clone 34βE12	91
GA051	Mo a Hu	**Cytokeratin, High Molecular Weight**, Clone 34βE12, Ready-to-Use, FLEX, for Dako Omnis	30 91
IR051	Mo a Hu	**Cytokeratin, High Molecular Weight**, Clone 34βE12, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 91
IS051	Mo a Hu	**Cytokeratin, High Molecular Weight**, Clone 34βE12, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 91
IC004	a Hu	**Cytokeratin HMW + AMACR + Cytokeratin 5/6**, Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	119
Z0622	Rb a	**Cytokeratin, Wide Spectrum Screening**	91
K5499		**Cytology FISH Accessory Kit** (20 Tests)	188
M0854	Mo a	**Cytomegalovirus**, Clones CCH2 + DDG9	92
GA752	Mo a	**Cytomegalovirus**, Clones CCH2 + DDG9, Ready-to-Use, FLEX, for Dako Omnis	30 92
IR752	Mo a	**Cytomegalovirus**, Clones CCH2 + DDG9, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 92

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M0897	Mo a	**Epstein-Barr Virus, LMP**, Clones CS.1-4	94
IR753	Mo a	**Epstein-Barr Virus, LMP**, Clones CS.1-4, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 94
IS753	Mo a	**Epstein-Barr Virus, LMP**, Clones CS.1-4, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 94
		ER, see: Estrogen Receptor	
		erbB-3, see: HER3	
		ERBB2 Oncoprotein, see: c-erbB-2 Oncoprotein, HercepTest and *HER2* IQFISH pharmDx Kit	
M3648	Mo a Hu	**ERCC1**, Clone 4F9,	94
IR091	Mo a Hu	**ERCC1**, Clone 4F9, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 94
M7314	Rb a Hu	**ERG**, Clone EP111	94
GA659	Rb a Hu	**ERG**, Clone EP111, Ready-to-Use, FLEX, for Dako Omnis	31 94
IR659	Rb a Hu	**ERG**, Clone EP111, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 94
K4071		**ER/PR pharmDx Kit** for the Dako Autostainer	56 150
SK310		**ER/PR pharmDx Kit (Link)** (50 Tests)	39 150
B0357	Rb a	**Escherichia Coli**	121
M7047	Mo a Hu	**Estrogen Receptor** α, Clone 1D5	95
IR657	Mo a Hu	**Estrogen Receptor** α, Clone 1D5, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 95
IS657	Mo a Hu	**Estrogen Receptor** α, Clone 1D5, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 95
M3643	Rb a Hu	**Estrogen Receptor** α, Clone EP1	95
IR084	Rb a Hu	**Estrogen Receptor** α, Clone EP1, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 95
IS084	Rb a Hu	**Estrogen Receptor** α, Clone EP1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 95
		Estrogen Receptor α, see also: ER/PR pharmDx Kits	
M7292	Mo a Hu	**Estrogen Receptor** β**1**, Clone PPG5/10	95
GM300		**Ethanol Solution, 96%,** for In Situ Hybridization on Dako Omnis	24 187
		Ets-Related Gene, see: ERG	
Y5400		***ETV6* FISH DNA Probe, Split Signal**	176
		Ewing's Sarcoma Marker, see: CD99, MIC2 Gene Products	
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		Factor VIII-Related Antigen, see: Von Willebrand Factor	
S3025		**Faramount, Aqueous Mounting Medium**	139
M3567	Mo a Hu	**Fascin**, Clone 55K-2	96
F0111	Rb a Hu	**Fibrinogen/FITC**	96 121
K5499		**FISH Accessory Kit, Cytology** (20 Tests)	188
K5799		**FISH Accessory Kit, Histology** (20 Tests)	188
K5326		**FISH PNA Kit/Cy3, Telomere** (20 Tests)	172
K5325		**FISH PNA Kit/FITC, Telomere** (20 Tests)	172
		FITC, see: Fluorescein Isothiocyanate	
		FLEX, EnVision Reagents	132-133
		FLEX, EnVision Systems	130-131
P5100	Rb a	**Fluorescein Isothiocyanate (FITC)/HRP**, Rabbit F(Ab')	172
S3023		**Fluorescence Mounting Medium**	139
GM304		**Fluorescence Mounting Medium (Dako Omnis)**	24 187
M3504	Mo a Hu	**Follicle-Stimulating Hormone (FSH)**, Clone C10	96
M7157	Mo a Hu	**Follicular Dendritic Cell**, Clone CNA.42	96
K0625		**Fuchsin+ Substrate-Chromogen** (300 Tests/1100 Tests)	137
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A0568	Rb a Hu	**Gastrin**	96
GA519	Rb a Hu	**Gastrin**, Ready-to-Use, FLEX, for Dako Omnis	31 96
IR519	Rb a Hu	**Gastrin**, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 96
IS519	Rb a Hu	**Gastrin**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 96
		GCDFP-15, see: Gross Cystic Disease Fluid Protein-15	
K0620		**GenPoint, Catalyzed Signal Amplification System, for In Situ Hybridization** (65 Tests)	185
Y1443		**GenPoint HPV, Biotinylated DNA Probe**	184
AR164		**Giemsa Stain Kit, Artisan** (50 Tests)	203
AR308		**Giemsa Stain Kit (Jenner-Wright), Artisan** (50 Tests)	200
M0761	Mo a Hu	**Glial Fibrillary Acidic Protein (GFAP)**, Clone 6F2	96
Z0334	Rb a	**Glial Fibrillary Acidic Protein (GFAP)**	96 121

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GA524	Rb a	**Glial Fibrillary Acidic Protein (GFAP)**, Ready-to-Use, FLEX, for Dako Omnis	31 96
IR524	Rb a	**Glial Fibrillary Acidic Protein (GFAP)**, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 96
IS524	Rb a	**Glial Fibrillary Acidic Protein (GFAP)**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 96
C0563		**Glycergel®**, Aqueous Mounting Medium	139
		Glycophorin A, see: CD235a, Glycophorin A	
M0820	Mo a Hu	**Glycophorin C**, Clone Ret40f	97
		Glycoprotein IIIa, see: CD61, Platelet Glycoprotein IIIa	
AR376		**GMS (Grocott's Methenamine Silver) Eosin Stain Kit, Artisan** (50 Tests)	201
AR176		**GMS (Grocott's Methenamine Silver) Stain Kit, Artisan** (50 Tests/100 Tests)	204
E0466	Rb a	**Goat Immunoglobulins/Biotinylated**	123
F0250	Rb a	**Goat Immunoglobulins/FITC**	123
P0160	Rb a	**Goat Immunoglobulins/HRP**	123
P0449	Rb a	**Goat Immunoglobulins/HRP**	123
X0907		**Goat Serum** (Normal)	125
AR166		**Gomori's Green Trichrome Stain Kit, Artisan** (50 Tests)	203
AR167		**Gomori's Trichrome Stain Kit, Artisan** (50 Tests)	203
AR175		**Gram Stain Kit, Artisan** (50 Tests)	204
AR306		**Gram Yellow Stain Kit, Artisan** (50 Tests)	200
M7235	Mo a Hu	**Granzyme B**, Clone GrB-7	97
AR376		**Grocott's Methenamine Silver (GMS) Eosin Stain Kit, Artisan** (50 Tests)	201
AR176		**Grocott's Methenamine Silver (GMS) Stain Kit, Artisan** (50 Tests/100 Tests)	204
M3638	Mo a Hu	**Gross Cystic Disease Fluid Protein-15**, Clone 23A3	97
GA077	Mo a Hu	**Gross Cystic Disease Fluid Protein-15**, Clone 23A3, Ready-to-Use, FLEX, for Dako Omnis	31 97
IR077	Mo a Hu	**Gross Cystic Disease Fluid Protein-15**, Clone 23A3, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 97
IS077	Mo a Hu	**Gross Cystic Disease Fluid Protein-15**, Clone 23A3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 97
A0570	Rb a Hu	**Growth Hormone**	97
P0141	Rb a	**Guinea Pig Immunoglobulins/HRP**	123
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CS100		**H&E, CoverStainer, Dako**	191
		Hairy Cell Leukaemia, see: Leukaemia, Hairy Cell	
		hCG, see: Chorionic Gonadotropin	
B0471	Rb a	**Helicobacter Pylori**	97
GA523	Rb a	**Helicobacter Pylori**, Ready-to-Use, FLEX, for Dako Omnis	31 97
IR523	Rb a	**Helicobacter Pylori**, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 97
IS523	Rb a	**Helicobacter Pylori**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 97
SK308		**Hematoxylin**, for Autostainer Link Instruments	37 151 153
GC808		**Hematoxylin**, for Dako Omnis	23 132
S3301		**Hematoxylin**, for Dako Autostainer	55 149 151 153
S2020		**Hematoxylin, Dako REAL** (500 mL)	138
K8008		**Hematoxylin, EnVision FLEX**, for Autostainer Link Instruments	54 133
K8018		**Hematoxylin, EnVision FLEX**, for Dako Autostainer Instruments	61 133
S3309		**Hematoxylin, Mayer's** (500 mL)	138
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B0586	Rb a	**Hepatitis B Virus Core Antigen (HBcAg)**	97
M7158	Mo a Hu	**Hepatocyte**, Clone OCH1E5	98
GA624	Mo a Hu	**Hepatocyte**, Clone OCH1E5, Ready-to-Use, FLEX, for Dako Omnis	31 98
IR624	Mo a Hu	**Hepatocyte**, Clone OCH1E5, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 98
IS624	Mo a Hu	**Hepatocyte**, Clone OCH1E5, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 98
		HER1 Protein, see: EGFR pharmDx Kit	
SK109		***HER2* CISH pharmDx Kit** (20 Tests)	159 170
K5731		***HER2* IQFISH pharmDx** (20 Tests)	158 169
GM333		***HER2* IQFISH pharmDx ™(Dako Omnis)** (20 tests)	25 157 168
		HER-2/neu Oncoprotein, see: c-erbB-2 Oncoprotein	
		HER-2 Protein IHC Kit, see: HercepTest	
M7297	Mo a Hu	**HER3**, Clone DAK-H3-IC	98
K5204		**HercepTest** (35 Tests)	152
SK001		**HercepTest** for Automated Link Platforms (50 Tests)	39 152
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B0114	Rb a	**Herpes Simplex Virus Type 1**	98

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GA521	Rb a	**Herpes Simplex Virus Type 1**, Ready-to-Use, FLEX, for Dako Omnis	31 98
IR521	Rb a	**Herpes Simplex Virus Type 1**, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 98
IS521	Rb a	**Herpes Simplex Virus Type 1**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 98
B0116	Rb a	**Herpes Simplex Virus Type 2**	98
		hGH, see: Growth Hormone	
K5799		**Histology FISH Accessory Kit** (20 Tests)	188
		HIV, p24, see: Human Immunodeficiency Virus	
M0736	Mo a Hu	**HLA-ABC Antigen**, Clone W6/32	98
M0775	Mo a Hu	**HLA-DP, DQ, DR Antigen**, Clone CR3/43	98
M0746	Mo a Hu	**HLA-DR Antigen, Alpha-Chain**, Clone TAL.1B5	99
		HPV, see: Papillomavirus (Human)	
Y1443		**HPV DNA Probe Cocktail, GenPoint**	184
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M0857	Mo a	**Human Immunodeficiency Virus (HIV), p24**, Clone Kal-1	99
S2452		**Humidity Control Strips, Hybridizer**	164
S2450		**Hybridizer (110-120 V)**	164
S2451		**Hybridizer (200-240 V)**	164
S2452		**Hybridizer Humidity Control Strips**	164
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A0262	Rb a Hu	**IgA**	99 121
F0204	Rb a Hu	**IgA/FITC**	99 121
F0316	Rb a Hu	**IgA/FITC**, Rabbit $F(ab')_2$	99 121
GA510	Rb a Hu	**IgA**, Ready-to-Use, FLEX, for Dako Omnis	31 99
IR510	Rb a Hu	**IgA**, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 99
IS510	Rb a Hu	**IgA**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 99
F0200	Rb a Hu	**IgA, IgG, IgM, Kappa, Lambda/FITC**	99 121
P0212	Rb a Hu	**IgA, IgG, IgM, Kappa, Lambda/HRP**	99 121
IR517	Rb a Hu	**IgD**, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 99
IS517	Rb a Hu	**IgD**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 99
A0423	Rb a Hu	**IgG**	99 121
D0336	Rb a Hu	**IgG/AP**	99 121
F0315	Rb a Hu	**IgG/FITC, Rabbit $F(ab')_2$**	99 121
F0202	Rb a Hu	**IgG/FITC**	99 121
P0214	Rb a Hu	**IgG/HRP**	99 121
IR512	Rb a Hu	**IgG**, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 99
IS512	Rb a Hu	**IgG**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 99
Y5406		***IGH* FISH DNA Probe, Split Signal**	176
A0425	Rb a Hu	**IgM**	100 122
F0317	Rb a Hu	**IgM/FITC, Rabbit $F(ab')_2$**	100 122
F0203	Rb a Hu	**IgM/FITC**	100 122
P0215	Rb a Hu	**IgM/HRP**	100 122
GA513	Rb a Hu	**IgM**, Ready-to-Use, FLEX, for Dako Omnis	32 100
IR513	Rb a Hu	**IgM**, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 100
IS513	Rb a Hu	**IgM**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 100
K8020		**IHC Microscope Slides**, FLEX	23 37 55 133 139
M3626	Mo a Hu	**IMP3**, Clone 69.1	100
M3609	Mo a Hu	**Inhibin** α, Clone R1	100
IR058	Mo a Hu	**Inhibin** α, Clone R1, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 100
IS058	Mo a Hu	**Inhibin** α, Clone R1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 100
K0601		**In Situ Hybridization Detection Kit (AP), for Biotinylated Nucleic Acid Probes** (50 Tests)	186
K5201		**In Situ Hybridization Detection Kit (AP), for Fluorescein-Labelled PNA Probes** (40 Tests)	186
SK301		**Instrument Cleaning Kit (Link)**	37
A0564	Gp a	**Insulin**	100
IR002	Gp a	**Insulin**, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 100
IS002	Gp a	**Insulin**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 100
G9415A		**IQFISH Fast Hybridization Buffer 200**	188
G9416A		**IQFISH Fast Hybridization Buffer 200 x 6**	188

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K0609		**LSAB2 Kit/HRP, Rabbit/Mouse, for Rat Tissue** (150 Tests)	136
M3502	Mo a Hu	**Luteinizing Hormone (LH)**, Clone C93	102
		Lymphatic Endothelium Marker, see: Podoplanin	
A0099	Rb a Hu	**Lysozyme EC 3.2.1.17**	102 122
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M0633	Mo a Rb	**Macrophage**, Clone RAM11	103
AR314		**Maintenance Kit, Artisan**	199
Y5409		***MALT1* FISH DNA Probe, Split Signal**	177
M3625	Mo a Hu	**Mammaglobin**, Clone 304-1A5	103
GA074	Mo a Hu	**Mammaglobin**, Clone 304-1A5, Ready-to-Use, FLEX, for Dako Omnis	32 103
IR074	Mo a Hu	**Mammaglobin**, Clone 304-1A5, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 103
IS074	Mo a Hu	**Mammaglobin**, Clone 304-1A5, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 103
AR173		**Masson's Trichrome Stain Kit, Artisan** (50 Tests/100 Tests)	204
M7052	Mo a Hu	**Mast Cell Tryptase**, Clone AA1	103
IR640	Mo a Hu	**Mast Cell Tryptase**, Clone AA1, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 103
IS640	Mo a Hu	**Mast Cell Tryptase**, Clone AA1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 103
M7263	Mo a Hu	**MCM3 Protein**, Clone 101	103
M7196	Mo a Hu	**Melan-A**, Clone A103	103
IR633	Mo a Hu	**Melan-A**, Clone A103, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 103
IS633	Mo a Hu	**Melan-A**, Clone A103, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 103
IC001	a Hu	**Melan-A + S100 + Tyrosinase**, Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	120
M0634	Mo a Hu	**Melanosome**, Clone HMB-45	104
GA052	Mo a Hu	**Melanosome**, Clone HMB-45, Ready-to-Use, FLEX, for Dako Omnis	32 104
IR052	Mo a Hu	**Melanosome**, Clone HMB-45, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 104
IS052	Mo a Hu	**Melanosome**, Clone HMB-45, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 104
M3505	Mo a Hu	**Mesothelial Cell**, Clone HBME-1	104
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M0639	Mo a	**Metallothionein**, Clone E9	104
S1962		**Methyl Green** (500 mL)	138
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		MHC-II, see: HLA-DP, DQ, DR Antigen	
		MIB-1, see: Ki-67 Antigen, Clone MIB-1	
		MIC2 Gene Products, see: CD99, Ewing's Sarcoma Marker	
		Microphthalmia Transcription Factor, see: MITF	
K8020		**Microscope Slides**, FLEX IHC	23 37 55 133 139
M3621	Mo a Hu	**MITF**, Clone D5	104
GC116		**Mixing Device**, for Dako Omnis	24 187
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Y5401		***MLL* FISH DNA Probe, Split Signal**	177
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S3025		**Mounting Medium, Aqueous, Faramount**	139
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CS705		**Mounting Medium, Toluene-Free, Dako**, for Dako CoverStainer	193
GM304		**Mounting Medium for FISH (Dako Omnis)**	24 187
X0931		**Mouse IgG1**, Control Reagent	125
X0943		**Mouse IgG2a**, Control Reagent	125
X0944		**Mouse IgG2b**, Control Reagent	125
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Z0420	Gt a	**Mouse Immunoglobulins**	123
D0486	Gt a	**Mouse Immunoglobulins/AP**	123
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AR169		**Periodic Acid-Schiff (PAS)/Alcian Blue Stain Kit, Artisan** (50 Tests/100 Tests)	202
AR172		**Periodic Acid-Schiff (PAS)/Green Stain Kit, Artisan** (50 Tests/100 Tests)	205
AR180		**Periodic Acid-Schiff (PAS-M)/Jones' Basement Membrane Stain Kit, Artisan** (100 Tests)	204
AR480		**Periodic Acid-Schiff (PAS-M)/Jones' Basement Membrane H&E Stain Kit, Artisan** (100 Tests)	201
AR380		**Periodic Acid-Schiff (PAS-M)/Jones' Basement Membrane Light Green Stain Kit, Artisan** (50 Tests)	201
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S2023		**Peroxidase-Blocking Solution, Dako REAL**	55 138
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M7082	Mo a Hu	**Phagocytic Glycoprotein-1, CD44**, Clone DF1485	84
S3024		**Phosphate-Buffered Saline (PBS), pH 7.0** (6 x 1 L)	138
M7191	Mo a Hu	**Placental Alkaline Phosphatase**, Clone 8A9	110
IR779	Mo a Hu	**Placental Alkaline Phosphatase**, Clone 8A9, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 110
IS779	Mo a Hu	**Placental Alkaline Phosphatase**, Clone 8A9, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 110
M7077	Mo a Hu	**Plasma Cell**, Clone VS38c	110
		Plasma Cell, see also: CD138, Clone MI15	
		Platelet Endothelial Cell Adhesion Molecule-1, see: CD31, Endothelial Cell	
		Platelet Glycoprotein IIIa, see: CD61, Platelet Glycoprotein IIIa	
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M0778	Mo a	**Pneumocystis Jiroveci**, Clone 3F6	110
IR635	Mo a	**Pneumocystis Jiroveci**, Clone 3F6, Ready-to-Use, FLEX, for Autostainer Link Instrument	50 110
IS635	Mo a	**Pneumocystis Jiroveci**, Clone 3F6, Ready-to-Use, FLEX, for Dako Autostainer nstruments	59 110
M3619	Mo a Hu	**Podoplanin**, Clone D2-40	110
IR072	Mo a Hu	**Podoplanin**, Clone D2-40, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 110
IS072	Mo a Hu	**Podoplanin**, Clone D20, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 110
M3647	Rb a Hu	**Postmeiotic Segregation Increased 2**, Clone EP51	111
IR087	Rb a Hu	**Postmeiotic Segregation Increased 2**, Clone EP51, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 111
		PR, see: Progesterone Receptor	
GM301		**Pre-Treatment Solution (20x)**, for In Situ Hybridization on Dako Omnis	24 187
M3569	Mo a Hu	**Progesterone Receptor**, Clone PgR 636	111
IR068	Mo a Hu	**Progesterone Receptor**, Clone PgR 636, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 111
IS068	Mo a Hu	**Progesterone Receptor**, Clone PgR 636, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 111
M3568	Mo a Hu	**Progesterone Receptor**, Clone PgR 1294	111
		Progesterone Receptor, see also: ER/PR pharmDx Kits	
A0569	Rb a Hu	**Prolactin**	111
M0879	Mo a	**Proliferating Cell Nuclear Antigen**, Clone PC10	111
M0750	Mo a Hu	**Prostate-Specific Antigen (PSA)**, Clone ER-PR8	112
A0562	Rb a Hu	**Prostate-Specific Antigen (PSA)**	112
GA514	Rb a Hu	**Prostate-Specific Antigen (PSA)**, Ready-to-Use, FLEX, for Dako Omnis	33 112
IR514	Rb a Hu	**Prostate-Specific Antigen (PSA)**, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 112
IS514	Rb a Hu	**Prostate-Specific Antigen (PSA)**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 112
M3620	Mo a Hu	**Prostate-Specific Membrane Antigen (PSMA)**, Clone 3E6	112
IR089	Mo a Hu	**Prostate-Specific Membrane Antigen (PSMA)**, Clone 3E6, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 112
M0792	Mo a Hu	**Prostatic Acid Phosphatase**, Clone PASE/4LJ	112
M3615	Mo a Hu	**Prostein**, Clone 10E3	112
IR088	Mo a Hu	**Prostein**, Clone 10E3, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 112
X0909		**Protein Block, Serum Free**	138
Z5116	Rb a	**Protein Gene Product 9.5**	110
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Code	Source	Product	See Page
A0024	Rb a Hu	**Tau**	114
S1968		**TBS (Tris-Buffered Saline) pH 7.6** (2 x 5 L)	138
S3001		**TBS (Tris-Buffered Saline) pH 7.6** (6 x 1 L)	138
S3306		**TBST (Tris-Buffered Saline with Tween 20) pH 7.6**, 10x Concentrated (500 mL)	138
Y5402		***TCF3* FISH DNA Probe, Split Signal**	179
		TdT, see: Terminal Deoxynucleotidyl Transferase	
K5326		**Telomere PNA FISH Kit/Cy3** (20 Tests)	172
K5325		**Telomere PNA FISH Kit/FITC** (20 Tests)	172
		TEP1, see: PTEN	
		Terminal Complement Complex, see: C5b-9 (TCC)	
M3651	Rb a Hu	**Terminal Deoxynucleotidyl Transferase (TdT)**, Clone EP266	114
IR093	Rb a Hu	**Terminal Deoxynucleotidyl Transferase (TdT)**, Clone EP266, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 114
M0617	Mo a	**Thrombomodulin**, Clone 1009	114
M3614	Mo a Hu	**Thymidylate Synthase**, Clone TS106	114
M0781	Mo a Hu	**Thyroglobulin**, Clone DAK-Tg6	114
A0251	Rb a Hu	**Thyroglobulin**	115 122
GA509	Rb a Hu	**Thyroglobulin**, Ready-to-Use, FLEX, for Dako Omnis	33 115
IR509	Rb a Hu	**Thyroglobulin**, Ready-to-Use, FLEX, for Autostainer Link Instruments	52 115
IS509	Rb a Hu	**Thyroglobulin**, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 115
M7257	Mo a Hu	**Thyroid Peroxidase**, Clone MoAb47	115
M3503	Mo a Hu	**Thyroid-Stimulating Hormone (TSH)**, Clone 0042	115
M3575	Mo a	**Thyroid Transcription Factor (TTF-1)**, Clone 8G7G3/1	115
IR056	Mo a	**Thyroid Transcription Factor (TTF-1)**, Clone 8G7G3/1, Ready-to-Use, FLEX, for Autostainer Link Instruments	52 115
IS056	Mo a	**Thyroid Transcription Factor (TTF-1)**, Clone 8G7G3/1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 115
		TIMP-1, see: Tissue Inhibitor of Metalloproteinases 1	
M7293	Mo a Hu	**Tissue Inhibitor of Metalloproteinases 1**, Clone VT7	115
Y5404		***TLX3* FISH DNA Probe, Split Signal**	179
K5733		***TOP2A* IQFISH pharmDx** (20 Tests)	160 171
M7186	Mo a Hu	**Topoisomerase IIα**, Clone Ki-S1	116
S3306		**Tris-Buffered NaCl Solution with Tween 20 (TBST), pH 7.6**, 10x Concentrated	138
S1968		**Tris-Buffered Saline (TBS), pH 7.6** (2 x 5 L)	138
S3001		**Tris-Buffered Saline (TBS), pH 7.6** (6 x 1 L)	138
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		TS, see: Thymidylate Synthase	
		TTF-1, see: Thyroid Transcription Factor	
S1966		**Tween 20**	138
M3623	Mo a Hu	**Tyrosinase**, Clone T311	116
IR061	Mo a Hu	**Tyrosinase**, Clone T311, Ready-to-Use, FLEX, for Autostainer Link Instruments	52 116
IS061	Mo a Hu	**Tyrosinase**, Clone T311, Ready-to-Use, FLEX, for Dako Autostainer Instruments	59 116
IC001	a Hu	**Tyrosinase + S100 + Melan-A**, Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	120
		U	
Z0458	Rb a	**Ubiquitin**	116
S1964		**Ultramount, Aqueous, Permanent Mounting Medium**	139
DL412		**Universal Label Printer (Link)**	140 193 199
K0675		**Universal LSAB2 Kit/HRP, Rabbit/Mouse** (1100 Tests)	62 136
K0609		**Universal LSAB2 Kit/HRP, for Rat Tissue, Rabbit/Mouse** (150 Tests)	136
GA750		**Universal Negative Control, Mouse, Ready-to-Use, FLEX**, for Dako Omnis	33 125
IR750		**Universal Negative Control, Mouse, Ready-to-Use, FLEX**, for Autostainer Link Instruments	53 125
IS750		**Universal Negative Control, Mouse, Ready-to-Use, FLEX**, for Dako Autostainer Instruments	60 125
GA600		**Universal Negative Control, Rabbit, Ready-to-Use, FLEX**, for Dako Omnis	33 125
IR600		**Universal Negative Control, Rabbit, Ready-to-Use, FLEX**, for Autostainer Link Instruments	53 125
IS600		**Universal Negative Control, Rabbit, Ready-to-Use, FLEX**, for Dako Autostainer/Autostainer Plus	60 125
M7294	Mo a Hu	**uPAR**, Clone R4	116
		Urokinase-Type Plasminogen Activator Receptor, see: uPAR	
		V	
M7273	Mo a Hu	**Vascular Endothelial Growth Factor (VEGF)**, Clone VG1	116
GC202		**Vial, Large 30 mL**, for Dako Omnis	23
GC201		**Vial, Small 2 mL**, for Dako Omnis	23

Synonym List

Synonym	Name Used in Dako Product
3-FL	CD15
3-fucosyl-N-acetyllactosamine	CD15
5HT	serotonin
5-hydroxytryptamine	serotonin
14-3-2 protein	neuron-specific enolase
40S ribosomal protein S6	ribosomal protein S6-pS240, phosphorylation site specific
55 kDa actin-bundling protein	fascin
α-methylacyl-CoA racemase	AMACR
A b	beta-amyloid
A beta P	beta-amyloid
adhesion molecule-1	CD31, endothelial cell
AFP	alpha-1-fetoprotein
ALK protein	CD246, ALK protein
alpha-methylacyl-coenzyme A racemase	AMACR
amyloid b-peptide	beta-amyloid
amyloid beta-protein	beta-amyloid
API4	survivin
apoptosis inhibitor 4	survivin
Arc-1	E-cadherin
b-3 integrin	CD61, platelet glycoprotein IIIa
b3 integrin chain	CD61, platelet glycoprotein IIIa
B23	nucleophosmin
bA4 protein	beta-amyloid
baculoviral IAP repeat-containing protein 5	survivin
BIRC5	survivin
BLAST-2	CD23
BSAP	B-cell-specific activator protein
C3b receptor	CD35
C3bR	CD35
C3d-receptor	CD21
C4bR	CD35
cadherin	E-cadherin and N-cadherin
calgranulin	myeloid/histiocyte antigen
CALLA	CD10
calprotectin	myeloid/histiocyte antigen
caudal-type homeobox protein 2	CDX2
CD3 complex	CD3
CD44s	CD44, phagocytic glycoprotein-1
CD61A	CD61, platelet glycoprotein IIIa
CD87	uPAR
CD236R	glycophorin C
CEA	carcinoembryonic antigen
cell-CAM 120/180	E-cadherin

Synonym	Name Used in Dako Product
c-erbB-3	HER3
c-kit	CD117, c-kit
CMV	cytomegalovirus
COFS4	ERCC1
common acute lymphoblastic leukemia antigen	CD10
complement receptor 1	CD35
complement receptor type 1	CD35
CR1	CD35
CR2	CD21
cyclooxygenase-2	COX-2
cystic fibrosis antigen	myeloid/histiocyte antigen
D2-40	podoplanin
diaminobenzidine	DAB
EBV	Epstein-Barr virus
EBV-receptor	CD21
EC 1.14.18.1	tyrosinase
E-CD	E-cadherin
ECMRIII	CD44, phagocytic glycoprotein-1
EGFR	epidermal growth factor receptor
EGFR pY1173	EGFR-pY1197, phosphorylation site specific
EMA	epithelial membrane antigen
endoglin	CD105, endoglin
endothelial anticoagulant protein	thrombomodulin
endothelial cell	CD31, endothelial cell
EpCAM	epithelial-related antigen
epidermal growth factor receptor	EGFR
epidermal growth factor receptor 2	c-erbB-2 oncoprotein, HercepTest, *HER2* FISH
epiligrin	laminin-5, gamma-2 chain
erbB-1	epidermal growth factor receptor
ERBB2	c-erbB-2 oncoprotein, HercepTest, *HER2* FISH
erbB-3	HER3
ets-related gene product	ERG
Ewing's sarcoma marker	CD99, MIC2 gene product, Ewing's sarcoma marker
excision repair cross-complementation group 1	ERCC1
factor VIII-related antigen	von Willebrand factor
FceRII	CD23
fetomodulin	thrombomodulin
FM	thrombomodulin
FOLH	prostate-specific membrane antigen
follicular dendritic reticulum cell	follicular dendritic cell
FSP1	S100A4

Synonym	Name Used in Dako Product
g-enolase	neuron-specific enolase
GCDFP-15	gross cystic disease fluid protein-15
GCP2	prostate-specific membrane antigen
glycophorin A	CD235a, glycophorin A
glycophorin b	glycophorin C
glycoprotein IIIa	CD61, platelet glycoprotein IIIa
glycoprotein P112	thrombomodulin
GP160	CD105, endoglin
gp200	renal cell carcinoma marker
GPA	CD235a, glycophorin A
gpL115	CD43
GPIIb/IIIa	CD61, platelet glycoprotein IIIa
hairy cell leukaemia	leukaemia, hairy cell
H-CAM	CD44, phagocytic glycoprotein-1
hCG	chorionic gonadotropin
hep par 1	hepatocyte
HER1 protein	epidermal growth factor receptor
HER2	c-erbB-2 oncoprotein, HercepTest, *HER2* FISH
HER2/neu	c-erbB-2 oncoprotein, HercepTest, *HER2* FISH
Hermes antigen	CD44, phagocytic glycoprotein-1
hGH	growth hormone
HIV, p24	human immunodeficiency virus
HNK-1	CD57
homing-associated cell adhesion molecule	CD44, phagocytic glycoprotein-1
HPV	papillomavirus (human)
HSV	herpes simplex virus
ICSAT	MUM1 protein
Ig-a	CD79α
IGF2BP3	IMP3
immune adherence receptor	CD35
insulin-like growth factor II mRNA binding protein 3	IMP3
interferon consensus sequence binding protein for activated T cells	MUM1 protein
interferon regulatory factor 4	MUM1 protein
IRF4 protein	MUM1 protein
K8/18	cytokeratin 8/18
kalinin	laminin-5, gamma-2 chain
kallikrein 3	prostate-specific antigen
KET	p63 protein
K homology domain containing protein overexpressed in cancer	IMP3
Ki-1 antigen	CD30
KOC	IMP3

Synonym	Name Used in Dako Product
L1 antigen	myeloid/histiocyte antigen
L26	CD20cy
L523S Protein	IMP3
lacto-N-fucopentaose III	CD15
L-CAM	E-cadherin
leu-3	CD4
leucocyte function-associated antigen	CD2
leucocyte sialoglycoprotein	CD43
leukosialin	CD43
LeuM3	CD14
Lewis X antigen	CD15
LFA2	CD2
linker for activation of T cells	LAT protein
LNFP III	CD15
low affinity IgE receptor	CD23
LPS receptor	CD14
LPS-R	CD14
ly-5	CD45, leucocyte common antigen
lymphatic endothelium marker	podoplanin
MAC	C5b-9
MAM-1A5	mammaglobin
MART-1	melan-A
mb-1	CD79α
membrane attack complex	C5b-9
MGA	mammaglobin
MHC-I	HLA-ABC antigen
MHC-II	HLA-DP, DQ, DR antigen
MIC2 gene product	CD99, MIC2 gene product, Ewing's sarcoma marker
microphthalmia transcription factor	MITF
MMAC	PTEN
MO2	CD14
MPO	myeloperoxidase
MRP8/MRP14	myeloid/histiocyte antigen
MSH2	mutS protein homolog 2
MSH6	mutS protein homolog 6
MUC1	epithelial membrane antigen
mucin 2	MUC2
mucin 5AC	MUC5AC
muramidase	lysozyme EC 3.2.1.17
mutated in multiple advanced cancers	PTEN
My4	CD14
NCAD	N-cadherin
neprilysin	CD10
nerve cadherin	N-cadherin

Synonym List (continued)

Synonym	Name Used in Dako Product
neu oncoprotein	c-erbB-2 oncoprotein, HercepTest, *HER2* FISH
neural-type cadherin	N-cadherin
neutral endopeptidase 24.11	CD10
nicein	laminin-5, gamma-2 chain
NO38	nucleophosmin
NPM	nucleophosmin
NSE	neuron-specific enolase
OKT4	CD4
oncoprotein, BCL2	BCL2 oncoprotein
OTF 3/4	octamer-binding transcription factor 3/4
p30/32mic2	CD99, MIC2 gene product, Ewing's sarcoma marker
p38	synaptophysin
p55	fascin
p63 protein	plasma cell
p145	CD117, c-kit
p185HER2	c-erbB-2 oncoprotein, HercepTest, *HER2* FISH
P501S	prostein
P504S	AMACR
Pax-5	B-cell-specific activator protein
PCNA	proliferating cell nuclear antigen
PECAM-1	CD31, endothelial cell
Pgp-1	CD44, phagocytic glycoprotein-1
phagocytic glycoprotein-1	CD44, phagocytic glycoprotein-1
PIP	MUM1 protein
PIP	gross cystic disease fluid protein-15
PKB	Akt-pS473
platelet/endothelial cell adhesion molecule-1	CD31, endothelial cell
platelet glycoprotein IIIa	CD61, platelet glycoprotein IIIa
PMS2	postmeiotic segregation increased 2
Pneumocystis carinii	*Pneumocystis jiroveci*
POU5F1	octamer-binding transcription factor 3/4
prolactin-inducible protein	gross cystic disease fluid protein-15
protein IT	cytokeratin 20
protein kinase B	Akt-pS473
protein p38	synaptophysin
PSA	prostate-specific antigen
PSAP	prostatic acid phosphatase
PSM	prostate-specific membrane antigen
PSMA	prostate-specific membrane antigen
ptyr-1173 EGFR	EGFR-pY1197, phosphorylation site specific

Synonym	Name Used in Dako Product
PU.1 interaction partner	MUM1 protein
RPS6	ribosomal protein S6-pS240, phosphorylation site specific
Rac-α	Akt-pS473
RCC	renal cell carcinoma marker
S100A8/S100A9	myeloid/histiocyte antigen
sialoglycoprotein alpha	CD235a, glycophorin A
sialophorin	CD43
sialyl Lea	CA 19-9
somatotropin	growth hormone
SSEA-1	CD15
stage-specific embryonic antigen-1	CD15
syndecan-1	CD138
syp1	synaptophysin
T1	CD5
T3	CD3
T11 antigen	CD2
T200	CD45, leucocyte common antigen
T311	tyrosinase
TCC	C5b-9
TdT	terminal deoxynucleotidyl transferase
TEP1	PTEN
terminal complement complex	C5b-9
Tg	thyroglobulin
TGF-b-regulated and epithelial cell-enriched phosphatase	PTEN
TIMP-1	tissue inhibitor of metalloproteinase 1
Tp50	CD2
Tp63	p63 protein
Tp67	CD5
TPO	thyroid peroxidase
transcriptional regulator ERG	ERG
tryptase	mast cell tryptase
TS	thymidylate synthase
TTF-1	thyroid transcription factor
tumor protein 63	p63 protein
urokinase-type plasminogen activator receptor	uPAR
UV20	ERCC1
uvomorulin	E-cadherin
vascular permeability factor	vascular endothelial growth factor
VEGF	vascular endothelial growth factor
VPF	vascular endothelial growth factor
X-hapten	CD15
Z-associated protein, 70 kDa	ZAP-70

Antibody Clone Index

The following list of antibodies has been cataloged alphabetically by clone name.

Clone	Antibody	Code	Page
0042	Thyroid-Stimulating Hormone (TSH)	M3503	115
02A3	Adrenocorticotropin (ACTH)	M3501	74
1A4	Smooth Muscle Actin	M0851	74
1D2 C3	Villin	M3637	116
1D5	Estrogen Receptor α	M7047	95
1F8	CD21, B Cell	M0784	82
2B11 + PD7/26	CD45, Leucocyte Common Antigen	M0701	84
2F3.2	ZAP-70	M7303	118
2F11	Neurofilament Protein	M0762	107
3E6	Prostate-Specific Membrane Antigen (PSMA)	M3620	112
3F6	Pneumocystis Jiroveci	M0778	110
4B12	CD4	M7310	80
4C7	CD5	M3641	80
4C7	Laminin	M0638	101
4F9	ERCC1	M3648	94
4G1	Laminin-5, Gamma-2 Chain	M7262	102
4KB5	CD45RA	M0754	84
5.8A	MyoD1	M3512	106
5-D8/1	Enterovirus	M7064	93
5HT-H209	Serotonin	M0758	113
6F2	Glial Fibrillary Acidic Protein (GFAP)	M0761	96
6F/3D	Beta-Amyloid	M0872	77
6F-H2	Wilms' Tumor 1 (WT1) Protein	M3561	117
6G11	N-Cadherin	M3613	107
6H2.1	PTEN	M3627	113
8A9	Placental Alkaline Phosphatase	M7191	110
8G7G3/1	Thyroid Transcription Factor	M3575	115
10E3	Prostein	M3615	112
12C4	Survivin	M3624	114
12E7	CD99, MIC2 Gene Products, Ewing's Sarcoma Marker	M3601	86
13H4	AMACR	M3616	75
14-5	Akt-pS473, Phosphorylation Site Specific	M3628	74
23A3	Gross Cystic Disease Fluid Protein-15	M3638	97
34βE12	Cytokeratin, High MW	M0630	91
55K-2	Fascin	M3567	96
56C6	CD10	M7308	81
69.1	IMP3	M3626	100
101	MCM3 Protein	M7263	103
1116-NS-19-9	CA 19-9	M3517	77
123C3	CD56	M7304	85
124	BCL2 Oncoprotein	M0887	76
151	BCL10 Protein	M7260	76
304-1A5	Mammaglobin	M3625	103
318-6-11	p53 Protein	M3629	109
376	Nucleophosmin	M7305	108
1009	Thrombomodulin	M0617	114
A103	Melan-A	M7196	103
AA1	Mast Cell Tryptase	M7052	103
AB75	CD2	M7309	79
AE1/AE3	Cytokeratin	M3515	89
aE11	C5b-9	M0777	77
ALK1	CD246, ALK Protein	M7195	87
Alpha-Sr-1	Actin (Sarcomeric)	M0874	74
AR441	Androgen Receptor	M3562	75
β-Catenin-1	Beta-Catenin	M3539	77
BBS/NC/VI-H14	Neuron-Specific Enolase (NSE)	M0873	107
Ber-EP4	Epithelial Antigen	M0804	93
Ber-H2	CD30	M0751	83
Ber-MAC-DRC	CD35	M0846	83
Bu20a	Bromodeoxyuridine	M0744	77
C8/144B	CD8	M7103	81
C10	Follicle-Stimulating Hormone (FSH)	M3504	96
C93	Luteinizing Hormone (LH)	M3502	102
CALP	Calponin	M3556	78
Carb-3	CD15	M3631	81
CBC.37	CD7	M7255	80
CCH2 + DDG9	Cytomegalovirus	M0854	92
CCP58	MUC2	M7313	104
CIV 22	Collagen IV	M0785	88
CLH1	MUC5AC	M7316	105
CNA.42	Follicular Dendritic Cell	M7157	96
CR3/43	HLA-DP, DQ, DR Antigen	M0775	98
CS.1-4	Epstein-Barr Virus, LMP	M0897	94
CX-294	COX-2	M3617	88
D2-40	Podoplanin	M3619	110
D5	MITF	M3621	104
D5/16 B4	Cytokeratin 5/6	M7237	89
D33	Desmin	M0760	92
DAK-A3	Chromogranin A	M0869	88
DAK-Calret 1	Calretinin	M7245	78
DAK-CD23	CD23	M7312	82
DAK-CDX2	CDX2	M3636	88
DAK-H1-1197	EGFR-pY1197	M7299	93
DAK-H1-WT	EGFR, Wild-Type	M7298	93
DAK-H3-IC	HER3	M7292	95
DAK-p63	p63 Protein	M7317	109
DAK-Pax5	B-Cell-Specific Activator Protein	M7307	76
DAK-S6-240	Ribosomal Protein S6-pS240, Phosphorylation Site Specific	M7300	113
DAK-SYNAP	Synaptophysin	M7315	114
DAK-Tg6	Thyroglobulin	M0781	114
DBA.44	Leukaemia, Hairy Cell	M0880	102
DC 10	Cytokeratin 18	M7010	90
DDG9 + CCH2	Cytomegalovirus	M0854	92
DE-K10	Cytokeratin 10	M7002	90
DE-K13	Cytokeratin 10/13	M7003	90
DF1485	CD44, Phagocytic Glycoprotein-1	M7082	84
DF-T1	CD43	M0786	84

Antibody Clone Index (continued)

Clone	Antibody	Code	Page
DO-7	p53 Protein	M7001	109
E3	Cytokeratin 17	M7046	90
E9	Metallothionein	M0639	104
E29	Epithelial Membrane Antigen (EMA)	M0613	94
E30	Epidermal Growth Factor Receptor	M7239	92
EBM11	CD68	M0718	85
EP1	Estrogen Receptor α	M3643	95
EP12	Cyclin D1	M3642	88
EP17/EP30	Cytokeratin 8/18	M3652	90
EP49	MutS Protein Homolog 6	M3646	106
EP51	Postmeiotic Segregation Increased 2	M3647	111
EP111	ERG	M7314	94
EP266	Terminal Deoxynucleotidyl Transferase	M3651	114
ER-PR8	Prostate-Specific Antigen (PSA)	M0750	112
ES05	MutL Protein Homolog 1	M3640	105
F5D	Myogenin	M3559	107
F7.2.38	CD3	M7254	79
F8/86	Von Willebrand Factor	M0616	117
FE11	MutS Protein Homolog 2	M3639	105
GrB-7	Granzyme B	M7235	97
H11	Epidermal Growth Factor Receptor	M3563	93
HBME-1	Mesothelial Cell	M3505	104
h-CD	Caldesmon	M3557	78
HHF35	Muscle Actin	M0635	74
HMB-45	Melanosome	M0634	104
II-7	Carcinoembryonic Antigen	M7072	78
JC70A	CD31, Endothelial Cell	M0823	83
JC159	CD235a, Glycophorin A	M0819	87
JCB117	CD79α,	M7050	86
K1H8	Papillomavirus (HPV)	M3528	110
Kal-1	Human Immunodeficiency Virus (HIV), p24	M0857	99
Ki-S1	Topoisomerase IIα	M7186	116
KP1	CD68	M0814	85
K_s20.8	Cytokeratin 20	M7019	91
L26	CD20cy	M0755	82
LAT-1	LAT Protein	M7279	102
LE-CD19	CD19	M7296	82
M11	CA 125	M3520	77
MAC 387	Myeloid/Histiocyte Antigen	M0747	106
mc1	Amyloid A	M0759	75
MI15	CD138	M7228	87
MIB-1	Ki-67 Antigen	M7240	101
MIB-5	Rat Ki-67 Antigen	M7248	101
MNF116	Cytokeratin	M0821	89
MoAb47	Thyroid Peroxidase	M7257	115
MOC-31	Epithelial-Related Antigen	M3525	94
MR12/53	Rabbit Immunoglobulins	M0737	124
MUM1p	MUM1 Protein	M7259	105
N1NK	Octamer-Binding Transcription Factor 3/4	M3649	108
NCH-38	E-Cadherin	M3612	92
NP57	Neutrophil Elastase	M0752	108
010	CD1a	M3571	79
OCH1E5	Hepatocyte	M7158	98
OV-TL 12/30	Cytokeratin 7	M7018	90
PASE/4LJ	Prostatic Acid Phosphatase	M0792	112
PC10	Proliferating Cell Nuclear Antigen	M0879	111
PD7/26 + 2B11	CD45, Leucocyte Common Antigen	M0701	84
PG-B6p	BCL6 Protein	M7211	76
PG-M1	CD68	M0876	86
PgR 636	Progesterone Receptor	M3569	111
PgR 1294	Progesterone Receptor	M3568	111
PPG5/10	Estrogen Receptor β1	M7292	95
QBEnd 10	CD34 Class II	M7165	83
R1	Inhibin α	M3609	100
R4	uPAR	M7294	116
RAM11	Macrophage	M0633	103
RCK108	Cytokeratin 19	M0888	91
Ret40f	Glycophorin C	M0820	97
SMMS-1	Smooth Muscle Myosin Heavy Chain	M3558	107
SN6h	CD105, Endoglin	M3527	86
SPM314	Renal Cell Carcinoma Marker	M3632	113
SX53G8	$p27^{Kip1}$	M7203	108
SX118	$p21^{WAF1/Cip1}$	M7202	108
T311	Tyrosinase	M3623	116
TAL.1B5	HLA-DR Antigen, Alpha-Chain	M0746	99
TB01	CD57	M7271	85
TS106	Thymidylate Synthase	M3614	114
TÜK4	CD14	M0825	81
UCHL1	CD45R0	M0742	84
V9	Vimentin	M0725	117
VG1	Vascular Endothelial Growth Factor (VEGF)	M7273	116
Vim 3B4	Vimentin	M7020	117
VS38c	Plasma Cell	M7077	110
VT7	Tissue Inhibitor of Metalloproteinases 1	M7293	115
W6/32	HLA-ABC Antigen	M0736	98
Y2/51	CD61, Platelet Glycoprotein IIIa	M0753	85

Product Code System

To clarify the product coding system, we have included the following brief explanation of the lettering system used with the product code numbers. This is a general guide; there may be some exceptions.

A	Polyclonal antibodies to human antigens
AR	Artisan Link and reagents
AS	Autostainer Link
B	Polyclonal antibodies to viral and microbial antigens
C	Glycergel Mounting Medium
CR	Coverslipper instrument and accessories
CS	CoverStainer instrument and accessories
D	Alkaline phosphatase (AP)-conjugated products
DL	Labeling System
E	Biotinylated products
F	Fluorescein (FITC)-conjugated antibodies
G	SureFISH probes and related reagents
GA	FLEX ready-to-use antibodies for Dako Omnis
GC	Ancillaries and Accessories for Dako Omnis
GI	Dako Omnis
GM	IQISH probes and reagents for Dako Omnis
GV	Kits for Dako Omnis
IC	Antibody Cocktails for Autostainer Link instruments
IR	FLEX ready-to-use antibodies for Autostainer Link instruments
IS	FLEX ready-to-use antibodies for Dako Autostainer instruments
K	Kit systems
M	Monoclonal antibodies
P	Horseradish peroxidase (HRP)-conjugated products
PT	PT Link instrument and accessories
S	Equipment and ancillary products
SK	Kits and accessories for Autostainer Link instruments
SL	Non-immunologic reagent for use with the Dako Autostainer
X	Control reagents Normal animal sera and normal animal immunoglobulin fractions
Y	Molecular probes
Z	Antibodies to animal antigens

Product Code Index

Code	Product	Package Size	Order No.	Page
A				
A0008	Polyclonal Rabbit Anti-Human Alpha-1-Fetoprotein	0.2 mL	A000829	75 121
A0024	Polyclonal Rabbit Anti-Human Tau	1 mL	A002401	114
A0082	Polyclonal Rabbit Anti-Human Von Willebrand Factor	0.2 mL 2 mL	A008229 A008202	117 121 122
A0099	Polyclonal Rabbit Anti-Human Lysozyme EC 3.2.1.17	2 mL	A009902	102 122
A0191	Polyclonal Rabbit Anti-Human Kappa Light Chains	2 mL	A019102	100 122
A0193	Polyclonal Rabbit Anti-Human Lambda Light Chains	2 mL	A019302	101 122
A0231	Polyclonal Rabbit Anti-Human Chorionic Gonadotropin	2 mL	A023102	88 121
A0251	Polyclonal Rabbit Anti-Human Thyroglobulin	2 mL	A025102	115 122
A0262	Polyclonal Rabbit Anti-Human IgA	1 mL	A026201	99 121
A0398	Polyclonal Rabbit Anti-Human Myeloperoxidase	0.2 mL	A039829	106
A0423	Polyclonal Rabbit Anti-Human IgG	1 mL	A042301	99 121
A0425	Polyclonal Rabbit Anti-Human IgM	1 mL	A042501	100 122
A0452	Polyclonal Rabbit Anti-Human CD3	0.2 mL 1 mL	A045229 A045201	80 80
A0485	Polyclonal Rabbit Anti-Human c-erbB-2 Oncoprotein	0.2 mL	A048529	88
A0562	Polyclonal Rabbit Anti-Human Prostate-Specific Antigen	1 mL	A056201	112
A0564	Polyclonal Guinea Pig Anti-Insulin	1 mL	A056401	100
A0566	Polyclonal Rabbit Anti-Human Somatostatin	1 mL	A056601	113
A0568	Polyclonal Rabbit Anti-Human Gastrin	1 mL	A056801	96
A0569	Polyclonal Rabbit Anti-Human Prolactin	1 mL	A056901	111
A0570	Polyclonal Rabbit Anti-Human Growth Hormone	1 mL	A057001	97
A0576	Polyclonal Rabbit Anti-Human Calcitonin	1 mL	A057601	78
A0623	Polyclonal Rabbit Anti-Human Myelin Basic Protein	1 mL	A062301	106
A4502	Polyclonal Rabbit Anti-Human CD117, c-kit	0.2 mL	A450229	86
A5114	Polyclonal Rabbit Anti-Human S100A4	1 mL	A511401	113
AR102	Artisan Wash Solution (x 50)	4 x 200 mL	AR10211	199
AR158	Artisan Iron Stain Kit	50 tests 100 tests	AR15892 AR15811	204
AR160	Artisan Alcian Blue pH 2.5 Stain Kit	50 tests 100 tests	AR16092 AR16011	202
AR161	Artisan Congo Red Stain Kit	50 tests 100 tests	AR16192 AR16111	203
AR162	Artisan Acid-Fast Bacteria (AFB) Stain Kit	50 tests 100 tests	AR16292 AR16211	202
AR163	Artisan Elastic Stain Kit	50 tests 100 tests	AR16392 AR16311	203
AR164	Artisan Giemsa Stain Kit	50 tests	AR16492	203
AR165	Artisan Periodic Acid Schiff (PAS) Stain Kit	50 tests 100 tests	AR16592 AR16511	205
AR166	Artisan Gomori's Green Trichrome Stain Kit	50 tests	AR16692	203
AR167	Artisan Gomori's Trichrome Stain Kit	50 tests	AR16792	203
AR168	Artisan Mucicarmine Stain Kit	50 tests 100 tests	AR16892 AR16811	204
AR169	Artisan Alcian Blue/PAS Stain Kit	50 tests 100 tests	AR16992 AR16911	202
AR171	Artisan Alpha-Amylase	50 tests 100 tests	AR17192 AR17111	199
AR172	Artisan PAS-Green Stain Kit	50 tests 100 tests	AR17292 AR17211	205
AR173	Artisan Masson's Trichrome Stain Kit	50 tests 100 tests	AR17392 AR17311	204
AR175	Artisan Gram Stain Kit	50 tests	AR17592	204
AR176	Artisan Grocott's Methenamine Silver (GMS) Stain Kit	50 tests 100 tests	AR17692 AR17611	204
AR178	Artisan Alcian Blue/PAS/Hematoxylin Stain Kit	50 tests 100 tests	AR17892 AR17811	202
AR179	Artisan Reticulin/Nuclear Fast Red Stain Kit	50 tests 100 tests	AR17992 AR17911	205
AR180	Artisan Jones' Basement Membrane (PAS-M) Stain Kit	100 tests	AR18011	204
AR181	Artisan Warthin-Starry Stain Kit	50 tests 100 tests	AR18192 AR18111	205
AR182	Artisan Recticulin/No Counterstain Stain Kit	100 tests	AR18211	205
AR306	Artisan Gram Yellow Stain Kit	50 tests	AR30692	200

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
AR307	Artisan Colloidal Iron Stain Kit	50 tests	AR30792	200
AR308	Artisan Jenner-Wright Giemsa Stain Kit	50 tests	AR30892	200
AR309	Artisan Clearing Solution	5 x 100 tests	AR30911	199
AR310	Artisan Link Pro Special Staining System	1 unit	AR31030	197
AR313	Artisan Orcein Stain Kit	50 tests	AR31392	201
AR314	Artisan Maintenance Kit	33 tests	AR31411	199
AR362	Artisan Acid-Fast Bacteria (AFB) Light Green Stain Kit	50 tests	AR36292	200
AR376	Artisan Grocott's Methenamine Silver Eosin Stain Kit	50 tests	AR37692	201
AR380	Artisan Jones' Basement Membrane Light Green (PAS-M) Stain Kit	50 tests	AR38092	201
AR409	Artisan 14 Pack Reagent Holder	1 unit	AR40930	199
AR480	Artisan Jones' Basement Membrane H&E (PAS-M) Stain Kit	100 tests	AR48011	201
AS480	Autostainer Link 48	1 unit	AS48030	36
B				
B0114	Polyclonal Rabbit Anti-Herpes Simplex Virus Type 1	2 mL	B011402	98
B0116	Polyclonal Rabbit Anti-Herpes Simplex Virus Type 2	2 mL	B011602	98
B0357	Polyclonal Rabbit Anti-Escherichia Coli	2 mL	B035702	121
B0471	Polyclonal Rabbit Anti-Helicobacter Pylori	0.2 mL 1 mL	B047129 B047101	97
B0586	Polyclonal Rabbit Anti-Hepatitis B Virus Core Antigen	1 mL	B058601	97
C				
C0563	Glycergel®, Aqueous Mounting Medium	15 mL	C056330	139
CR100	Dako Coverslipper	1 unit	CR10030	192
CR121	Cover Glass, 24 mm x 60 mm	5 x 200 pcs	CR12130	193
CR122	Cover Glass, 24 mm x 55 mm	5 x 200 pcs	CR12230	193
CR124	Cover Glass, 24 mm x 40 mm	5 x 200 pcs	CR12430	193
CS100	Dako CoverStainer	1 unit	CS10030	191
CS119	Dako CoverStainer Slide Rack	10 racks	CS11930	193
CS700	Dako Hematoxylin	Up to 3000 tests, 1 L	CS70030	193
CS701	Dako Eosin	Up to 3000 tests, 1 L	CS70130	193
CS702	Dako Bluing Buffer	Up to 3000 tests, 1 L	CS70230	193
CS703	Dako Mounting Medium	473 mL	CS70330	193
CS704	Dako Cover Glass, 24 x 50 mm	5 x 200 pcs	CS70430	193
CS705	Dako Toluene-Free Mounting Medium	500 mL	CS70530	193
D				
D0306	Polyclonal Swine Anti-Rabbit Immunoglobulins/AP	1 mL	D030601	124
D0314	Polyclonal Rabbit Anti-Mouse Immunoglobulins/AP	2 mL	D031402	123
D0336	Polyclonal Rabbit Anti-Human IgG/AP	1 mL	D033601	99 121
D0486	Polyclonal Goat Anti-Mouse Immunoglobulins/AP	2 mL	D048602	123
D0487	Polyclonal Goat Anti-Rabbit Immunoglobulins/AP	1 mL	D048701	123
DL213	Slide Label Kit, Small Flap	1500 labels	DL21330	141 199
DL412	Universal Label Printer (Link)	1 unit	DL41230	140 193 199
E				
E0353	Polyclonal Swine Anti-Rabbit Immunoglobulins/Biotinylated	1 mL	E035301	124
E0354	Polyclonal Rabbit Anti-Mouse Immunoglobulins/Biotinylated	1 mL	E035401	123
E0413	Polyclonal Rabbit Anti-Mouse Immunoglobulins/Biotinylated, Rabbit $F(ab')_2$	1 mL	E041301	123
E0431	Polyclonal Swine Anti-Rabbit Immunoglobulins/Biotinylated, Swine $F(ab')_2$	1 mL	E043101	124
E0432	Polyclonal Goat Anti-Rabbit Immunoglobulins/Biotinylated	1 mL	E043201	123
E0433	Polyclonal Goat Anti-Mouse Immunoglobulins/Biotinylated	1 mL	E043301	123
E0466	Polyclonal Rabbit Anti-Goat Immunoglobulins/Biotinylated	1 mL	E046601	123
F				
F0111	Polyclonal Rabbit Anti-Human Fibrinogen/FITC	2 mL	F011102	96 121
F0117	Polyclonal Rabbit Anti-Human Albumin/FITC	2 mL	F011702	74
F0169	Polyclonal Rabbit Anti-Human C4c Complement/FITC	2 mL	F016902	77
F0198	Polyclonal Rabbit Anti-Human Kappa Light Chains/FITC	2 mL	F019802	100 122
F0199	Polyclonal Rabbit Anti-Human Lambda Light Chains/FITC	2 mL	F019902	101 122
F0200	Polyclonal Rabbit Anti-Human IgA, IgG, IgM, Kappa, Lambda/FITC	2 mL	F020002	99 121
F0201	Polyclonal Rabbit Anti-Human C3c Complement/FITC	2 mL	F020102	77
F0202	Polyclonal Rabbit Anti-Human IgG/FITC	2 mL	F020202	99 121

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
F0203	Polyclonal Rabbit Anti-Human IgM/FITC	2 mL	F020302	100 122
F0204	Polyclonal Rabbit Anti-Human IgA/FITC	2 mL	F020402	99 121
F0205	Polyclonal Swine Anti-Rabbit Immunoglobulins/FITC	2 mL	F020502	124
F0232	Polyclonal Rabbit Anti-Mouse Immunoglobulins/FITC	2 mL	F023202	123
F0250	Polyclonal Rabbit Anti-Goat Immunoglobulins/FITC	2 mL	F025002	123
F0254	Polyclonal Rabbit Anti-Human C1q Complement/FITC	2 mL	F025402	77
F0261	Polyclonal Rabbit Anti-Mouse Immunoglobulins/FITC	2 mL	F026102	123
F0315	Polyclonal Rabbit Anti-Human IgG/FITC, Rabbit $F(ab')_2$	1 mL	F031501	99 121
F0316	Polyclonal Rabbit Anti-Human IgA/FITC, Rabbit $F(ab')_2$	1 mL	F031601	99 121
F0317	Polyclonal Rabbit Anti-Human IgM/FITC, Rabbit $F(ab')_2$	1 mL	F031701	100 122
G				
G111200-8	SureFISH ALK BA P5	5 µL	G111200-8	183
G111201-8	SureFISH ROS1 BA P5	5 µL	G111201-8	183
G111202-8	SureFISH RET BA P5	5 µL	G111202-8	183
G111400-8	SureFISH ALK BA P20	20 µL	G111400-8	183
G111401-8	SureFISH ROS1 BA P20	20 µL	G111401-8	183
G111402-8	SureFISH RET BA P20	20 µL	G111402-8	183
G111600-8	ALK IQFISH Break-Apart Probe	200 µL, 20 tests	G111600-8	181
G111601-8	ROS1 IQFISH Break-Apart Probe	200 µL, 20 tests	G111601-8	182
G111602-8	RET IQFISH Break-Apart Probe	200 µL, 20 tests	G111602-8	182
G111603-8	MET IQFISH Break-Apart Probe	200 µL, 20 tests	G111603-8	181
G111900-8	SureFISH ALK BA P200	200 µL,	G111900-8	183
G111901-8	SureFISH ROS1 BA P200	200 µL	G111901-8	183
G111902-8	SureFISH RET BA P200	200 µL	G111902-8	183
G211400-8	SureFISH ALK BA P20x6	20 µL, 6 vials	G211400-8	183
G211401-8	SureFISH ROS1 BA P20x6	20 µL, 6 vials	G211401-8	183
G211402-8	SureFISH RET BA P20 x 6	20 µL, 6 vials	G211402-8	183
G211600-8	ALK IQFISH Break-Apart Probe	200 µL, 6 x 20 tests	G211600-8	181
G211601-8	ROS1 IQFISH Break-Apart Probe	200 µL, 6 x 20 tests	G211601-8	182
G211602-8	RET IQFISH Break-Apart Probe	200 µL, 6 x 20 tests	G211602-8	182
G211603-8	MET IQFISH Break-Apart Probe	200 µL, 6 x 20 tests	G211603-8	181
G9414A	IQFISH Fast Hybridization Buffer 9000	900 µL	G9414A	188
G9415A	IQFISH Fast Hybridization Buffer 200	200 µL	G9415A	188
G9416A	IQFISH Fast Hybridization Buffer 200x6	200 µL, 6 vials	G9416A	188
GA051	FLEX Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34βE12, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA05161	30 91
GA052	FLEX Monoclonal Mouse Anti-Human Melanosome, Clone HMB-45, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA05261	32 104
GA053	FLEX Monoclonal Mouse Anti-Human Cytokeratin, Clone AE1/AE3, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA05361	30 89
GA054	FLEX Monoclonal Mouse Anti-Human Caldesmon, Clone h-CD, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA05461	27 78
GA059	FLEX Monoclonal Mouse Anti-Human E-Cadherin, Clone NCH-38, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA05961	31 92
GA060	FLEX Monoclonal Rabbit Anti-Human AMACR, Clone 13H4, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA06061	27 75
GA062	FLEX Monoclonal Mouse Anti-Human CD15, Clone Carb-3, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA06261	28 81
GA074	FLEX Monoclonal Mouse Anti-Human Mammaglobin, Clone 304-1A5, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA07461	32 103
GA075	FLEX Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker, Clone SPM314, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA07561	33 113
GA077	FLEX Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15, Clone 23A3, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA07761	31 97
GA080	FLEX Monoclonal Mouse Anti-Human CDX2, Clone DAK-CDX2, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA08061	29 88
GA083	FLEX Monoclonal Rabbit Anti-Human Cyclin D1, Clone EP12, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA08361	30 88
GA500	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Fetoprotein, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA50061	27 75
GA503	FLEX Polyclonal Rabbit Anti-Human CD3, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA50361	28 80
GA504	FLEX Polyclonal Rabbit Anti-S100, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA50461	33 113
GA505	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Antitrypsin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA50561	27 74
GA506	FLEX Polyclonal Rabbit Anti-Human Kappa Light Chains, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA50661	32 100
GA507	FLEX Polyclonal Rabbit Anti-Human Lambda Light Chains, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA50761	32 101
GA508	FLEX Polyclonal Rabbit Anti-Human Chorionic Gonadotropin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA50861	30 88
GA509	FLEX Polyclonal Rabbit Anti-Human Thyroglobulin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA50961	33 115
GA510	FLEX Polyclonal Rabbit Anti-Human IgA, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA51061	31 99
GA511	FLEX Polyclonal Rabbit Anti-Human Myeloperoxidase, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA51161	32 106
GA513	FLEX Polyclonal Rabbit Anti-Human IgM, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA51361	32 100
GA514	FLEX Polyclonal Rabbit Anti-Human Prostate-Specific Antigen, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA51461	33 112
GA515	FLEX Polyclonal Rabbit Anti-Human Calcitonin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA51561	27 78

◆ Packaged in vials for use with Dako Omnis

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Code	Product	Package Size	Order No.	Page
GA519	FLEX Polyclonal Rabbit Anti-Human Gastrin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA51961	31 96
GA521	FLEX Polyclonal Rabbit Anti-Herpes Simplex Virus Type 1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA52161	31 98
GA523	FLEX Polyclonal Rabbit Anti-Helicobacter Pylori, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA52361	31 97
GA524	FLEX Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA52461	31 96
GA526	FLEX Polyclonal Rabbit Anti-Human Carcinoembryonic Antigen, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA52661	28 79
GA527	FLEX Polyclonal Rabbit Anti-Human Von Willebrand Factor, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA52761	33 117
GA600	FLEX Universal Negative Control, Rabbit, Ready-to-Use (Dako Omnis)	120 tests, 24 mL◆	GA60066	33 125
GA604	FLEX Monoclonal Mouse Anti-Human CD20cy, Clone L26, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA60461	28 82
GA605	FLEX Monoclonal Mouse Anti-Human Amyloid A, Clone mc1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA60561	27 75
GA607	FLEX Monoclonal Mouse Anti-Human Neurofilament Protein, Clone 2F11, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA60761	32 107
GA609	FLEX Monoclonal Mouse Anti-Human CD68, Clone KP1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA60961	29 85
GA610	FLEX Monoclonal Mouse Anti-Human CD31, Endothelial Cell, Clone JC70A, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA61061	29 83
GA613	FLEX Monoclonal Mouse Anti-Human CD68, Clone PG-M1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA61361	29 86
GA615	FLEX Monoclonal Mouse Anti-Human Cytokeratin 19, Clone RCK108, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA61561	30 91
GA616	FLEX Monoclonal Mouse Anti-Human p53 Protein, Clone DO-7, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA61661	33 109
GA618	FLEX Monoclonal Mouse Anti-Human Cytokeratin 18, Clone DC 10, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA61861	30 90
GA619	FLEX Monoclonal Mouse Anti-Human Cytokeratin 7, Clone OV-TL 12/30, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA61961	30 90
GA621	FLEX Monoclonal Mouse Anti-Human CD79α, Clone JCB117, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA62161	29 86
GA622	FLEX Monoclonal Mouse Anti-Human Carcinoembryonic Antigen, Clone II-7, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA62261	28 78
GA623	FLEX Monoclonal Mouse Anti-Human CD8, Clone C8/144B, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA62361	28 81
GA624	FLEX Monoclonal Mouse Anti-Human Hepatocyte, Clone OCH1E5, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA62461	31 98
GA625	FLEX Monoclonal Mouse Anti-Human BCL6 Protein, Clone PG-B6p, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA62561	27 76
GA626	FLEX Monoclonal Mouse Anti-Human Ki-67 Antigen, Clone MIB-1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA62661	32 101
GA630	FLEX Monoclonal Mouse Anti-Vimentin, Clone V9, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA63061	33 117
GA632	FLEX Monoclonal Mouse Anti-Human CD34 Class II, Clone QBEnd 10, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA63261	29 83
GA636	FLEX Monoclonal Mouse Anti-Human CD43, Clone DF-T1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA63661	29 84
GA637	FLEX Monoclonal Mouse Anti-Human Epithelial Antigen, Clone Ber-EP4, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA63761	31 93
GA641	FLEX Monoclonal Mouse Anti-Human CD246, ALK Protein, Clone ALK1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA64161	29 87
GA642	FLEX Monoclonal Mouse Anti-Human CD138, Clone MI15, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA64261	29 87
GA643	FLEX Monoclonal Mouse Anti-Human CD7, Clone CBC.37, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA64361	28 80
GA644	FLEX Monoclonal Mouse Anti-Human MUM1 Protein, Clone MUM1p, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA64461	32 105
GA648	FLEX Monoclonal Mouse Anti-Human CD10, Clone 56C6, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA64861	28 81
GA650	FLEX Monoclonal Mouse Anti-Human B-Cell-Specific Activator Protein, Clone DAK-Pax5, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA65061	27 76
GA651	FLEX Monoclonal Mouse Anti-Human CD2, Clone AB75, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA65161	28 79
GA652	FLEX Monoclonal Mouse Anti-Human Nucleophosmin, Clone 376, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA65261	32 108
GA659	FLEX Monoclonal Rabbit Anti-Human ERG, Clone EP111, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA65961	31 94
GA701	FLEX Monoclonal Mouse Anti-Human CA 125, Clone M11, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA70161	27 77
GA702	FLEX Monoclonal Mouse Anti-Human Beta-Catenin, Clone β-Catenin-1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA70261	27 77
GA750	FLEX Universal Negative Control, Mouse, Ready-to-Use (Dako Omnis)	120 tests, 24 mL◆	GA75066	33 125
GA751	FLEX Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen, Clones 2B11 + PD7/26, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA75161	29 84
GA752	FLEX Monoclonal Mouse Anti-Cytomegalovirus, Clones CCH2 + DDG9, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA75261	30 92
GA777	FLEX Monoclonal Mouse Anti-Human Cytokeratin 20, Clone K_s20.8, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA77761	30 91
GA780	FLEX Monoclonal Mouse Anti-Human Cytokeratin 5/6, Clone D5/16 B4, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA78061	30 89
GA781	FLEX Monoclonal Mouse Anti-Human CD23, Clone DAK-CD23, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA78161	28 82
GC101	Dako Omnis Slide Rack	6 racks	GC10130	23
GC102	Dako Omnis ISH Lid	5 lids	GC10230	24 187
GC103	Dako Omnis Slide Rack Color Clip, Red	25 clips	GC10330	23
GC104	Dako Omnis Slide Rack Color Clip, Blue	25 clips	GC10430	23
GC105	Dako Omnis Slide Rack Color Clip, Green	25 clips	GC10530	23
GC106	Dako Omnis Slide Rack Color Clip, Gray	25 clips	GC10630	23
GC107	Dako Omnis Mixing Strip	25 strips	GC10730	23
GC116	Dako Omnis Mixing Device	1 unit	GC11630	24 187
GC201	Dako Omnis Small Vial, 2 mL	25 x 2 mL	GC20130	23
GC202	Dako Omnis Large Vial, 30 mL	25 x 30 mL	GC20230	23

◆ Packaged in vials for use with Dako Omnis

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GC203	Sulfuric Acid, 0.3 M	10 x 22.5 mL	GC20330	23
GC206	Dako Omnis Vial with Mixing Ball, 2 mL	2 mL	GC20630	24 187
GC207	ISH Cleaning Solution (Dako Omnis)	100 tests, 10 mL	GC20730	24 187
GC807	Wash Buffer (20x) (Dako Omnis)	20 x 175 mL, 1700 tests	GC80711	23 132
GC808	Hematoxylin (Dako Omnis)	8 x 22.5 mL, 600 tests	GC80811	23 132
GC810	Clearify™	3.8 L	GC81030	23
GI100	Dako Omnis	1 unit	GI10030	21
GM300	ISH Ethanol Solution, 96% (Dako Omnis)	20 tests, 14 mL	GM30011	24 187
GM301	ISH Pre-Treatment Solution (20x) (Dako Omnis)	175 mL	GM30111	24 187
GM302	ISH Pepsin (Dako Omnis)	20 tests, 7 mL	GM30211	24 187
GM303	ISH Stringent Wash Buffer (20x) (Dako Omnis)	175 mL	GM30311	24 187
GM304	Fluorescence Mounting Medium (Dako Omnis)	20 tests, 0.8 mL	GM30411	24 187
GM333	*HER2* IQFISH pharmDx (Dako Omnis)	20 tests, 1.6 mL	GM33311	25 157 168
GV800	EnVision FLEX, High pH (Dako Omnis)	600 tests	GV80011	34 131
GV804	EnVision FLEX Target Retrieval Solution, High pH (50x) (Dako Omnis)	3 x 68 mL, 225 tests	GV80411	34 132
GV805	EnVision FLEX Target Retrieval Solution, Low pH (50x) (Dako Omnis)	3 x 68 mL, 225 tests	GV80511	34 132
GV809	EnVision FLEX+ Rabbit LINKER (Dako Omnis)	22.5 mL, 75 tests	GV80911	34 132
GV821	EnVision FLEX+ Mouse LINKER (Dako Omnis)	22.5 mL, 75 tests	GV82111	34 132
GV823	EnVision FLEX Mini Kit, High pH (Dako Omnis)	150 tests	GV82311	34 131
GV825	EnVision FLEX DAB+ Substrate Chromogen System (Dako Omnis)	150 tests	GV82511	23 132
I				
IC001	DuoFLEX Cocktail, Anti-S100, Anti-Tyrosinase, Anti-Melan-A, Ready-to-Use (Link)	6 mL	IC00106	120
IC002	DuoFLEX Cocktail, Anti-CD3, Anti-CD20cy, Ready-to-Use (Link)	6 mL	IC00206	119
IC004	DuoFLEX Cocktail, Anti-AMACR, Anti-Cytokeratin HMW, Anti-Cytokeratin 5/6, Ready-to-Use (Link)	6 mL	IC00406	119
IR002	FLEX Polyclonal Guinea Pig Anti-Insulin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR00261	48 100
IR051	FLEX Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34βE12, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05161	46 91
IR052	FLEX Monoclonal Mouse Anti-Human Melanosome, Clone HMB-45, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05261	49 104
IR053	FLEX Monoclonal Mouse Anti-Human Cytokeratin, Clone AE1/AE3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05361	45 89
IR054	FLEX Monoclonal Mouse Anti-Human Caldesmon, Clone h-CD, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05461	42 78
IR055	FLEX Monoclonal Mouse Anti-Human Wilms' Tumor 1 (WT1) Protein, Clone 6F-H2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05561	52 117
IR056	FLEX Monoclonal Mouse Anti-Thyroid Transcription Factor, Clone 8G7G3/1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05661	52 115
IR057	FLEX Monoclonal Mouse Anti-Human CD99, MIC2 Gene Products, Ewing's Sarcoma Marker, Clone 12E7, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05761	44 86
IR058	FLEX Monoclonal Mouse Anti-Human Inhibin α, Clone R1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05861	48 100
IR059	FLEX Monoclonal Mouse Anti-Human E-Cadherin, Clone NCH-38, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05961	46 92
IR060	FLEX Monoclonal Rabbit Anti-Human AMACR, Clone 13H4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06061	41 75
IR061	FLEX Monoclonal Mouse Anti-Human Tyrosinase, Clone T311, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06161	52 116
IR062	FLEX Monoclonal Mouse Anti-Human CD15, Clone Carb-3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06261	43 81
IR066	FLEX Monoclonal Mouse Anti-Human Smooth Muscle Myosin Heavy Chain, Clone SMMS-1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06661	51 107
IR067	FLEX Monoclonal Mouse Anti-Myogenin, Clone F5D, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06761	50 107
IR068	FLEX Monoclonal Mouse Anti-Human Progesterone Receptor, Clone PgR 636, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06861	51 111
IR069	FLEX Monoclonal Mouse Anti-Human CD1a, Clone 010, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06961	42 79
IR072	FLEX Monoclonal Mouse Anti-Human Podoplanin, Clone D2-40, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07261	50 110
IR074	FLEX Monoclonal Mouse Anti-Human Mammaglobin, Clone 304-1A5, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07461	48 103
IR075	FLEX Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker, Clone SPM314, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07561	51 113
IR076	FLEX Monoclonal Mouse Anti-Villin, Clone 1D2 C3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07661	52 116
IR077	FLEX Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15, Clone 23A3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07761	47 97
IR079	FLEX Monoclonal Mouse Anti-Human MutL Protein Homolog 1, Clone ES05, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07961	49 105
IR080	FLEX Monoclonal Mouse Anti-Human CDX2, Clone DAK-CDX2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08061	45 88
IR082	FLEX Monoclonal Mouse Anti-Human CD5, Clone 4C7, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08261	43 80
IR083	FLEX Monoclonal Rabbit Anti-Human Cyclin D1, Clone EP12, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08361	45 88
IR084	FLEX Monoclonal Rabbit Anti-Human Estrogen Receptor α, Clone EP1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08461	47 95
IR085	FLEX Monoclonal Mouse Anti-Human MutS Protein Homolog 2, Clone FE11, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08561	49 105
IR086	FLEX Monoclonal Rabbit Anti-Human MutS Protein Homolog 6, Clone EP49, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08661	49 106
IR087	FLEX Monoclonal Rabbit Anti-Human Postmeiotic Segregration Increased 2, Clone EP51, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08761	51 111
IR088	FLEX Monoclonal Mouse Anti-Human Prostein, Clone 10E3 (Link)	60 tests, 12 mL▲	IR08861	51 112
IR089	FLEX Monoclonal Mouse Anti-Human Prostate-Specific Membrane Antigen, Clone 3E6 (Link)	60 tests, 12 mL▲	IR08961	51 112

▲ Packaged in vials for use with Autostainer Link instruments

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IR091	FLEX Monoclonal Mouse Anti-Human ERCC1, Clone 4F9, Ready-to-Use (Link)	60 tests, 12 mL▲	IR09161	47 94
IR092	FLEX Monoclonal Mouse Anti-Human Octamer-Binding Transcription Factor 3/4, Clone N1NK, Ready-to-Use (Link)	60 tests, 12 mL▲	IR09261	50 108
IR093	FLEX Monoclonal Rabbit Anti-Human Terminal Deoxynucleotidyl Transferase (TdT), Clone EP266, Ready-to-Use (Link)	60 tests, 12 mL▲	IR09361	51 114
IR094	FLEX Monoclonal Rabbit Anti-Human Cytokeratin 8/18, Clone EP17/EP30, Ready-to-Use (Link)	60 tests, 12 mL▲	IR09461	45 90
IR500	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Fetoprotein, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50061	41 75
IR503	FLEX Polyclonal Rabbit Anti-Human CD3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50361	42 80
IR504	FLEX Polyclonal Rabbit Anti-S100, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50461	51 113
IR505	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Antitrypsin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50561	41 74
IR506	FLEX Polyclonal Rabbit Anti-Human Kappa Light Chains, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50661	48 100
IR507	FLEX Polyclonal Rabbit Anti-Human Lambda Light Chains, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50761	48 101
IR508	FLEX Polyclonal Rabbit Anti-Human Chorionic Gonadotropin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50861	45 88
IR509	FLEX Polyclonal Rabbit Anti-Human Thyroglobulin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50961	52 115
IR510	FLEX Polyclonal Rabbit Anti-Human IgA, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51061	48 99
IR511	FLEX Polyclonal Rabbit Anti-Human Myeloperoxidase, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51161	49 106
IR512	FLEX Polyclonal Rabbit Anti-Human IgG, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51261	48 99
IR513	FLEX Polyclonal Rabbit Anti-Human IgM, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51361	48 100
IR514	FLEX Polyclonal Rabbit Anti-Human Prostate-Specific Antigen, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51461	51 112
IR515	FLEX Polyclonal Rabbit Anti-Human Calcitonin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51561	42 78
IR517	FLEX Polyclonal Rabbit Anti-Human IgD, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51761	48 99
IR519	FLEX Polyclonal Rabbit Anti-Human Gastrin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51961	47 96
IR521	FLEX Polyclonal Rabbit Anti-Herpes Simplex Virus Type 1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR52161	47 98
IR523	FLEX Polyclonal Rabbit Anti-Helicobacter Pylori, Ready-to-Use (Link)	60 tests, 12 mL▲	IR52361	47 97
IR524	FLEX Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein, Ready-to-Use (Link)	60 tests, 12 mL▲	IR52461	47 96
IR526	FLEX Polyclonal Rabbit Anti-Human Carcinoembryonic Antigen, Ready-to-Use (Link)	60 tests, 12 mL▲	IR52661	42 79
IR527	FLEX Polyclonal Rabbit Anti-Human Von Willebrand Factor, Ready-to-Use (Link)	60 tests, 12 mL▲	IR52761	52 117
IR600	FLEX Universal Negative Control, Rabbit, Ready-to-Use (Link)	120 tests, 24 mL▲	IR60066	53 125
IR602	FLEX Monoclonal Mouse Anti-Human CD30, Clone Ber-H2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60261	43 83
IR604	FLEX Monoclonal Mouse Anti-Human CD20cy, Clone L26, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60461	43 82
IR605	FLEX Monoclonal Mouse Anti-Human Amyloid A, Clone mc1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60561	41 75
IR606	FLEX Monoclonal Mouse Anti-Human Desmin, Clone D33, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60661	46 92
IR607	FLEX Monoclonal Mouse Anti-Human Neurofilament Protein, Clone 2F11, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60761	50 107
IR608	FLEX Monoclonal Mouse Anti-Human CD21, Clone 1F8, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60861	43 82
IR609	FLEX Monoclonal Mouse Anti-Human CD68, Clone KP1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60961	44 85
IR610	FLEX Monoclonal Mouse Anti-Human CD31, Endothelial Cell, Clone JC70A, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61061	44 83
IR611	FLEX Monoclonal Mouse Anti-Human Smooth Muscle Actin, Clone 1A4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61161	41 74
IR612	FLEX Monoclonal Mouse Anti-Human Neuron-Specific Enolase, Clone BBS/NC/VI-H14, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61261	50 107
IR613	FLEX Monoclonal Mouse Anti-Human CD68, Clone PG-M1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61361	44 86
IR614	FLEX Monoclonal Mouse Anti-Human BCL2 Oncoprotein, Clone 124, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61461	41 76
IR615	FLEX Monoclonal Mouse Anti-Human Cytokeratin 19, Clone RCK108, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61561	46 91
IR616	FLEX Monoclonal Mouse Anti-Human p53 Protein, Clone DO-7, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61661	50 109
IR618	FLEX Monoclonal Mouse Anti-Human Cytokeratin 18, Clone DC 10, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61861	46 90
IR619	FLEX Monoclonal Mouse Anti-Human Cytokeratin 7, Clone OV-TL 12/30, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61961	45 90
IR620	FLEX Monoclonal Mouse Anti-Cytokeratin 17, Clone E3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62061	45 90
IR621	FLEX Monoclonal Mouse Anti-Human CD79α, Clone JCB117, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62161	44 86
IR622	FLEX Monoclonal Mouse Anti-Human Carcinoembryonic Antigen, Clone II-7, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62261	42 78
IR623	FLEX Monoclonal Mouse Anti-Human CD8, Clone C8/144B, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62361	43 81
IR624	FLEX Monoclonal Mouse Anti-Human Hepatocyte, Clone OCH1E5, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62461	47 98
IR625	FLEX Monoclonal Mouse Anti-Human BCL6 Protein, Clone PG-B6p, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62561	41 76
IR626	FLEX Monoclonal Mouse Anti-Human Ki-67 Antigen, Clone MIB-1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62661	48 101
IR627	FLEX Monoclonal Mouse Anti-Human Calretinin, Clone DAK-Calret 1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62761	42 78
IR628	FLEX Monoclonal Mouse Anti-Human CD56, Clone 123C3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62861	44 85
IR629	FLEX Monoclonal Mouse Anti-Human Epithelial Membrane Antigen, Clone E29, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62961	46 94
IR630	FLEX Monoclonal Mouse Anti-Vimentin, Clone V9, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63061	52 117
IR632	FLEX Monoclonal Mouse Anti-Human CD34 Class II, Clone QBEnd 10, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63261	44 83
IR633	FLEX Monoclonal Mouse Anti-Human Melan-A, Clone A103, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63361	49 103
IR635	FLEX Monoclonal Mouse Anti-Pneumocystic Jiroveci, Clone 3F6, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63561	50 110
IR636	FLEX Monoclonal Mouse Anti-Human CD43, Clone DF-T1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63661	44 84
IR637	FLEX Monoclonal Mouse Anti-Human Epithelial Antigen, Clone Ber-EP4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63761	46 93
IR640	FLEX Monoclonal Mouse Anti-Human Mast Cell Tryptase, Clone AA1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64061	49 103
IR641	FLEX Monoclonal Mouse Anti-Human CD246, ALK Protein, Clone ALK1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64161	45 87

▲ Packaged in vials for use with Autostainer Link instruments

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IR642	FLEX Monoclonal Mouse Anti-Human CD138, Clone MI15, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64261	45 87
IR643	FLEX Monoclonal Mouse Anti-Human CD7, Clone CBC.37, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64361	43 80
IR644	FLEX Monoclonal Mouse Anti-Human MUM1 Protein, Clone MUM1p, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64461	49 105
IR647	FLEX Monoclonal Mouse Anti-Human CD57, Clone TB01, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64761	44 85
IR648	FLEX Monoclonal Mouse Anti-Human CD10, Clone 56C6, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64861	43 81
IR649	FLEX Monoclonal Mouse Anti-Human CD4, Clone 4B12, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64961	42 80
IR650	FLEX Monoclonal Mouse Anti-Human B-Cell-Specific Activator Protein, Clone DAK-Pax5, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65061	41 76
IR651	FLEX Monoclonal Mouse Anti-Human CD2, Clone AB75, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65161	42 79
IR652	FLEX Monoclonal Mouse Anti-Human Nucleophosmin, Clone 376, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65261	50 108
IR653	FLEX Monoclonal Mouse Anti-Human ZAP-70, Clone 2F3.2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65361	52 118
IR656	FLEX Monoclonal Mouse Anti-Human CD19, Clone LE-CD19, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65661	43 82
IR657	FLEX Monoclonal Mouse Anti-Human Estrogen Receptor α, Clone 1D5, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65760	47 95
IR658	FLEX Monoclonal Mouse Anti-Human MUC2, Clone CCP58, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65861	49 104
IR659	FLEX Monoclonal Rabbit Anti-Human ERG, Clone EP111, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65961	47 94
IR660	FLEX Monoclonal Mouse Anti-Human Synaptophysin, Clone DAK-SYNAP, Ready-to-Use (Link)	60 tests, 12 mL▲	IR66061	51 114
IR661	FLEX Monoclonal Mouse Anti-Human MUC5AC, Clone CLH2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR66161	49 105
IR662	FLEX Monoclonal Mouse Anti-Human p63 Protein, Clone DAK-p63, Ready-to-Use (Link)	60 tests, 12 mL▲	IR66261	50 109
IR700	FLEX Monoclonal Mouse Anti-Human Muscle Actin, Clone HHF35, Ready-to-Use (Link)	60 tests, 12 mL▲	IR70061	41 74
IR701	FLEX Monoclonal Mouse Anti-Human CA 125, Clone M11, Ready-to-Use (Link)	60 tests, 12 mL▲	IR70161	42 77
IR702	FLEX Monoclonal Mouse Anti-Human Beta-Catenin, Clone β-Catenin-1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR70261	41 77
IR750	FLEX Universal Negative Control, Mouse, Ready-to-Use (Link)	120 tests, 24 mL▲	IR75066	53 125
IR751	FLEX Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen, Clones 2B11 + PD7/26, Ready-to-Use (Link)	60 tests, 12 mL▲	IR75161	44 84
IR752	FLEX Monoclonal Mouse Anti-Cytomegalovirus, Clones CCH2 + DDG9, Ready-to-Use (Link)	60 tests, 12 mL▲	IR75261	46 92
IR753	FLEX Monoclonal Mouse Anti-Epstein-Barr Virus, LMP, Clones CS.1-4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR75361	46 94
IR777	FLEX Monoclonal Mouse Anti-Human Cytokeratin 20, Clone K_s20.8, Ready-to-Use (Link)	60 tests, 12 mL▲	IR77761	46 91
IR779	FLEX Monoclonal Mouse Anti-Human Placental Alkaline Phosphatase, Clone 8A9, Ready-to-Use (Link)	60 tests, 12 mL▲	IR77961	50 110
IR780	FLEX Monoclonal Mouse Anti-Human Cytokeratin 5/6, Clone D5/16 B4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR78061	45 89
IR781	FLEX Monoclonal Mouse Anti-Human CD23, Clone DAK-CD23 (Link)	60 tests, 12 mL▲	IR78161	43 82
IS002	FLEX Polyclonal Guinea Pig Anti-Insulin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS00230	59 100
IS051	FLEX Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34βE12, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05130	58 91
IS052	FLEX Monoclonal Mouse Anti-Human Melanosome, Clone HMB-45, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05230	59 104
IS053	FLEX Monoclonal Mouse Anti-Human Cytokeratin, Clone AE1/AE3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05330	58 89
IS054	FLEX Monoclonal Mouse Anti-Human Caldesmon, Clone h-CD, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05430	57 78
IS055	FLEX Monoclonal Mouse Anti-Human Wilms' Tumor 1 (WT1) Protein, Clone 6F-H2, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05530	60 117
IS056	FLEX Monoclonal Mouse Anti-Thyroid Transcription Factor, Clone 8G7G3/1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05630	59 115
IS057	FLEX Monoclonal Mouse Anti-Human CD99, MIC2 Gene Products, Ewing's Sarcoma Marker, Clone 12E7, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05730	58 86
IS058	FLEX Monoclonal Mouse Anti-Human Inhibin α, Clone R1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05830	59 100
IS059	FLEX Monoclonal Mouse Anti-Human E-Cadherin, Clone NCH-38, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05930	58 92
IS060	FLEX Monoclonal Rabbit Anti-Human AMACR, Clone 13H4, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06030	57 75
IS061	FLEX Monoclonal Mouse Anti-Human Tyrosinase, Clone T311, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06130	59 116
IS062	FLEX Monoclonal Mouse Anti-Human CD15, Clone Carb-3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06230	57 81
IS066	FLEX Monoclonal Mouse Anti-Human Smooth Muscle Myosin Heavy Chain, Clone SMMS-1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06630	59 107
IS067	FLEX Monoclonal Mouse Anti-Myogenin, Clone F5D, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06730	59 107
IS068	FLEX Monoclonal Mouse Anti-Human Progesterone Receptor, Clone PgR 636, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06830	59 111
IS069	FLEX Monoclonal Mouse Anti-Human CD1a, Clone 010, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06930	57 79
IS072	FLEX Monoclonal Mouse Anti-Human Podoplanin Clone D2-40, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07230	59 110

▲ Packaged in vials for use with Autostainer Link instruments
△ Packaged in vials for use with Dako Autostainer instruments

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
IS074	FLEX Monoclonal Mouse Anti-Human Mammaglobin, Clone 304-1A5, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07430	59 103
IS075	FLEX Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker, Clone SPM314, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07530	59 113
IS076	FLEX Monoclonal Mouse Anti-Villin, Clone 1D2 C3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07630	60 116
IS077	FLEX Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15, Clone 23A3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07730	58 97
IS079	FLEX Monoclonal Mouse Anti-Human MutL Protein Homolog 1, Clone ES05, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07930	59 105
IS080	FLEX Monoclonal Mouse Anti-Human CDX2, Clone DAK-CDX2, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS08030	58 88
IS082	FLEX Monoclonal Mouse Anti-Human CD5, Clone 4C7, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS08230	57 80
IS083	FLEX Monoclonal Rabbit Anti-Human Cyclin D1, Clone EP12, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS08330	58 88
IS084	FLEX Monoclonal Rabbit Anti-Human Estrogen Receptor α, Clone EP1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS08430	58 95
IS500	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Fetoprotein, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50030	57 75
IS503	FLEX Polyclonal Rabbit Anti-Human CD3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50330	57 80
IS504	FLEX Polyclonal Rabbit Anti-S100, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50430	59 113
IS505	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Antitrypsin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50530	57 74
IS506	FLEX Polyclonal Rabbit Anti-Human Kappa Light Chains, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50630	59 100
IS507	FLEX Polyclonal Rabbit Anti-Human Lambda Light Chains, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50730	59 101
IS508	FLEX Polyclonal Rabbit Anti-Human Chorionic Gonadotropin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50830	58 88
IS509	FLEX Polyclonal Rabbit Anti-Human Thyroglobulin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50930	59 115
IS510	FLEX Polyclonal Rabbit Anti-Human IgA, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS51030	59 99
IS511	FLEX Polyclonal Rabbit Anti-Human Myeloperoxidase, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS51130	59 106
IS512	FLEX Polyclonal Rabbit Anti-Human IgG, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS51230	59 99
IS513	FLEX Polyclonal Rabbit Anti-Human IgM, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS51330	59 100
IS514	FLEX Polyclonal Rabbit Anti-Human Prostate-Specific Antigen, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS51430	59 112
IS515	FLEX Polyclonal Rabbit Anti-Human Calcitonin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS51530	57 78
IS517	FLEX Polyclonal Rabbit Anti-Human IgD, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS51730	59 99
IS519	FLEX Polyclonal Rabbit Anti-Human Gastrin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS51930	58 96
IS521	FLEX Polyclonal Rabbit Anti-Herpes Simplex Virus Type 1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS52130	59 98
IS523	FLEX Polyclonal Rabbit Anti-Helicobacter Pylori, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS52330	59 97
IS524	FLEX Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS52430	58 96
IS526	FLEX Polyclonal Rabbit Anti-Human Carcinoembryonic Antigen, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS52630	57 79
IS527	FLEX Polyclonal Rabbit Anti-Human Von Willebrand Factor, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS52730	60 117
IS600	FLEX Universal Negative Control, Rabbit, Ready-to-Use (Dako Autostainer/Autostainer Plus)	60 tests, 12 mL△	IS60061	60 125
IS602	FLEX Monoclonal Mouse Anti-Human CD30, Clone Ber-H2, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS60230	57 83
IS604	FLEX Monoclonal Mouse Anti-Human CD20cy, Clone L26, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS60430	57 82
IS605	FLEX Monoclonal Mouse Anti-Human Amyloid A, Clone mc1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS60530	57 75
IS606	FLEX Monoclonal Mouse Anti-Human Desmin, Clone D33, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS60630	58 92
IS607	FLEX Monoclonal Mouse Anti-Human Neurofilament Protein, Clone 2F11, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS60730	59 107
IS608	FLEX Monoclonal Mouse Anti-Human CD21, Clone 1F8, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS60830	57 82
IS609	FLEX Monoclonal Mouse Anti-Human CD68, Clone KP1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS60930	58 85
IS610	FLEX Monoclonal Mouse Anti-Human CD31, Endothelial Cell, Clone JC70A, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61030	58 83

△ Packaged in vials for use with Dako Autostainer instruments

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
IS611	FLEX Monoclonal Mouse Anti-Human Smooth Muscle Actin, Clone 1A4, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61130	57 74
IS612	FLEX Monoclonal Mouse Anti-Human Neuron-Specific Enolase, Clone BBS/NC/VI-H14, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61230	59 107
IS613	FLEX Monoclonal Mouse Anti-Human CD68, Clone PG-M1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61330	58 86
IS614	FLEX Monoclonal Mouse Anti-Human BCL2 Oncoprotein, Clone 124, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61430	57 76
IS615	FLEX Monoclonal Mouse Anti-Human Cytokeratin 19, Clone RCK108, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61530	58 91
IS616	FLEX Monoclonal Mouse Anti-Human p53 Protein, Clone DO-7, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61630	59 109
IS618	FLEX Monoclonal Mouse Anti-Human Cytokeratin 18, Clone DC 10, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61830	58 90
IS619	FLEX Monoclonal Mouse Anti-Human Cytokeratin 7, Clone OV-TL 12/30, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS61930	58 90
IS620	FLEX Monoclonal Mouse Anti-Cytokeratin 17, Clone E3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62030	58 90
IS621	FLEX Monoclonal Mouse Anti-Human CD79α, Clone JCB117, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62130	58 86
IS622	FLEX Monoclonal Mouse Anti-Human Carcinoembryonic Antigen, Clone II-7, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62230	57 78
IS623	FLEX Monoclonal Mouse Anti-Human CD8, Clone C8/144B, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62330	57 81
IS624	FLEX Monoclonal Mouse Anti-Human Hepatocyte, Clone OCH1E5, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62430	59 98
IS625	FLEX Monoclonal Mouse Anti-Human BCL6 Protein, Clone PG-B6p, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62530	57 76
IS626	FLEX Monoclonal Mouse Anti-Human Ki-67 Antigen, Clone MIB-1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62630	59 101
IS627	FLEX Monoclonal Mouse Anti-Human Calretinin, Clone DAK-Calret 1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62730	57 78
IS628	FLEX Monoclonal Mouse Anti-Human CD56, Clone 123C3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62830	58 85
IS629	FLEX Monoclonal Mouse Anti-Human Epithelial Membrane Antigen, Clone E29, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS62930	58 94
IS630	FLEX Monoclonal Mouse Anti-Vimentin, Clone V9, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS63030	60 117
IS632	FLEX Monoclonal Mouse Anti-Human CD34 Class II, Clone QBEnd 10, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS63230	58 83
IS633	FLEX Monoclonal Mouse Anti-Human Melan-A, Clone A103, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS63330	59 103
IS635	FLEX Monoclonal Mouse Anti-Pneumocystis Jiroveci, Clone 3F6, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IR63530	59 110
IS636	FLEX Monoclonal Mouse Anti-Human CD43, Clone DF-T1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS63630	58 84
IS637	FLEX Monoclonal Mouse Anti-Human Epithelial Antigen, Clone Ber-EP4, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS63730	58 93
IS640	FLEX Monoclonal Mouse Anti-Human Mast Cell Tryptase, Clone AA1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS64030	59 103
IS641	FLEX Monoclonal Mouse Anti-Human CD246, ALK Protein, Clone ALK1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS64130	58 87
IS642	FLEX Monoclonal Mouse Anti-Human CD138, Clone MI15, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS64230	58 87
IS643	FLEX Monoclonal Mouse Anti-Human CD7, Clone CBC.37, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS64330	57 80
IS644	FLEX Monoclonal Mouse Anti-Human MUM1 Protein, Clone MUM1p, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS64430	59 105
IS647	FLEX Monoclonal Mouse Anti-Human CD57, Clone TB01, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS64730	58 85
IS648	FLEX Monoclonal Mouse Anti-Human CD10, Clone 56C6, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS64830	57 81
IS649	FLEX Monoclonal Mouse Anti-Human CD4, Clone 4B12, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS64930	57 80
IS650	FLEX Monoclonal Mouse Anti-Human B-Cell-Specific Activator Protein, Clone DAK-Pax5, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS65030	57 76
IS651	FLEX Monoclonal Mouse Anti-Human CD2, Clone AB75, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS65130	57 79
IS656	FLEX Monoclonal Mouse Anti-Human CD19, Clone LE-CD19, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS65630	57 82

△ Packaged in vials for use with Dako Autostainer instruments

Code	Product	Package Size	Order No.	Page
IS657	FLEX Monoclonal Mouse Anti-Human Estrogen Receptor α, Clone 1D5, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS65730	58 95
IS700	FLEX Monoclonal Mouse Anti-Human Muscle Actin, Clone HHF35, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS70030	57 74
IS701	FLEX Monoclonal Mouse Anti-Human CA 125, Clone M11, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS70130	57 77
IS702	FLEX Monoclonal Mouse Anti-Human Beta-Catenin, Clone β-Catenin-1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS70230	57 77
IS750	FLEX Universal Negative Control, Mouse, Ready-to-Use (Dako Autostainer/Autostainer Plus)	60 tests, 12 mL△	IS75061	60 125
IS751	FLEX Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen, Clones 2B11 + PD7/26, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS75130	58 84
IS752	FLEX Monoclonal Mouse Anti-Cytomegalovirus, Clones CCH2 + DDG9, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS75230	58 92
IS753	FLEX Monoclonal Mouse Anti-Epstein-Barr Virus, LMP, Clones CS.1-4, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS75330	58 94
IS777	FLEX Monoclonal Mouse Anti-Human Cytokeratin 20, Clone K_s20.8, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS77730	58 91
IS779	FLEX Monoclonal Mouse Anti-Human Placental Alkaline Phosphatase, Clone 8A9, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS77930	59 110
IS780	FLEX Monoclonal Mouse Anti-Human Cytokeratin 5/6, Clone D5/16 B4, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS78030	58 89
IS781	FLEX Monoclonal Mouse Anti-Human CD23, Clone DAK-CD23, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS78130	57 82
K				
K0598	BCIP/NBT Substrate System	150 tests	K059811	137
K0601	In Situ Hybridization Detection System (AP), for Biotinylated Probes	50 tests	K060111	186
K0609	Universal LSAB2 Kit/HRP, Rabbit/Mouse	150 tests	K060911	136
K0620	GenPoint™, Catalyzed Signal Amplification System, for In Situ Hybridization	65 tests	K062011	185
K0625	Fuchsin+ Substrate-Chromogen	300 tests, 30 mL 1100 tests, 110 mL	K062511 K062530	137
K0640	Dako Liquid Permanent Red	300 tests, 30 mL 1100 tests, 110 mL	K064011 K064030	137
K0675	Universal LSAB2 Kit/HRP, Rabbit/Mouse (10 x 11 mL Link + 10 x 11 mL Streptavidin/HRP)	1100 tests 1100 tests, 10 x 11 mL△	K067511 K067589	62 136
K1492	EGFR pharmDx Kit for Manual Use	35 tests	K149211	148
K1494	EGFR pharmDx Kit for the Dako Autostainer	50 tests	K149489	56 148 150
K1497	CSA II System, Biotin Free	150 tests, 15 mL	K149711	136
K1500	Catalyzed Signal Amplification (CSA) System	150 tests	K150011	136
K1501	CSA II Rabbit Link	150 tests, 15 mL	K150180	136
K1906	c-Kit pharmDx for Manual Use	25 tests	K190611	147
K1907	c-Kit pharmDx for the Dako Autostainer	35 tests	K190787	56 147
K3461	AEC+ Substrate-Chromogen, Ready-to-Use	150 tests, 15 mL	K346111	55 137
K3464	AEC Substrate-Chromogen, Ready-to-Use	1100 tests, 110 mL	K346430	137
K3467	Liquid DAB+	150 tests, 15 mL	K346711	137
K3468	Liquid DAB+	1100 tests, 110 mL 1100 tests, 10 x 11 mL△	K346811 K346889	55 137
K3469	AEC+ Substrate-Chromogen, Ready-to-Use	1100 tests, 110 mL	K346911	55 137
K3954	ARK (Animal Research Kit)/HRP	150 tests	K395411	136
K4000	EnVision+/HRP, Mouse	150 tests, 15 mL	K400011	135
K4001	EnVision+/HRP, Mouse	1100 tests, 110 mL	K400111	135
K4002	EnVision+/HRP, Rabbit	150 tests, 15 mL	K400211	135
K4003	EnVision+/HRP, Rabbit	1100 tests, 110 mL	K400311	135
K4004	EnVision+ System/HRP, Mouse (AEC+)	150 tests	K400411	135
K4005	EnVision+ System/HRP, Mouse (AEC+)	1100 tests	K400511	62 135
K4006	EnVision+ System/HRP, Mouse (DAB+)	150 tests	K400611	135
K4007	EnVision+ System/HRP, Mouse (DAB+)	1100 tests	K400711	62 135
K4008	EnVision+ System/HRP, Rabbit (AEC+)	150 tests	K400811	135
K4009	EnVision+ System/HRP, Rabbit (AEC+)	1100 tests	K400911	62 135
K4010	EnVision+ System/HRP, Rabbit (DAB+)	150 tests	K401011	135
K4011	EnVision+ System/HRP, Rabbit (DAB+)	1100 tests	K401111	62 135
K4061	EnVision+/HRP, Dual Link, Rabbit/Mouse	1100 tests, 10 x 11 mL△	K406189	62 135
K4063	EnVision+/HRP, Dual Link Rabbit/Mouse	150 tests, 15 mL	K406311	135
K4065	EnVision+ Detection System Peroxidase/DAB, Rabbit/Mouse	150 tests	K406511	62 135
K4068	ADVANCE™/HRP, Rabbit/Mouse	550 tests, 110 mL	K406889	62 136
K4069	ADVANCE™/HRP, Rabbit/Mouse	55 tests, 11 mL	K406987	62 136

△ Packaged in vials for use with Dako Autostainer instruments

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Code	Product	Package Size	Order No.	Page
K4071	ER/PR pharmDx Kit for the Dako Autostainer	50 tests	K407111	56 150
K5001	Dako REAL Detection System, Peroxidase/DAB+, Rabbit/Mouse	500 tests	K500111	62 136
K5003	Dako REAL Detection System, Peroxidase/AEC, Rabbit/Mouse	500 tests	K500311	62 136
K5005	Dako REAL Detection System, Alkaline Phosphatase/RED, Rabbit/Mouse	500 tests	K500511	62 136
K5007	Dako REAL EnVision Detection System, Peroxidase/DAB, Rabbit/Mouse	500 tests	K500711	62 135
K5201	PNA ISH Detection Kit	40 tests	K520111	186
K5204	HercepTest	35 tests	K520421	152
K5207	HercepTest for the Dako Autostainer	50 tests	K520721	56 152
K5325	Telomere PNA FISH Kit/FITC	20 tests	K532511	172
K5326	Telomere PNA FISH Kit/Cy3	20 tests	K532611	172
K5355	EnVision G|2 System/AP, Rabbit/Mouse (Permanent Red)	50 tests 500 tests	K535511 K535521	62 135
K5361	EnVision G|2 Doublestain System, Rabbit/Mouse (DAB+/Permanent Red)	150 tests	K536111	62 135
K5499	Cytology FISH Accessory Kit	20 tests	K549911	188
K5731	*HER2* IQFISH pharmDx	20 tests	K573111	158 169
K5733	*TOP2A* IQFISH pharmDx	20 tests	K573311	160 171
K5799	Histology FISH Accessory Kit	20 tests	K579911	188
K8000	EnVision FLEX, High pH (Link)	400-600 tests	K800021	53 131
K8002	EnVision FLEX+, High pH (Link)	400-600 tests	K800221	53 131
K8004	EnVision FLEX Target Retrieval Solution, High pH (50x)	3 x 30 mL	K800421	54 61 133
K8005	EnVision FLEX Target Retrieval Solution, Low pH (50x)	3 x 30 mL	K800521	54 61 133
K8006	EnVision FLEX Antibody Diluent	120 mL	K800621	54 61 133
K8007	EnVision FLEX Wash Buffer (20x)	1 L	K800721	54 61 133
K8008	EnVision FLEX Hematoxylin (Link)	3 x 45 mL, 400-600 tests	K800821	54 133
K8009	EnVision FLEX+ Rabbit (LINKER) (Link)	40 mL, 130-200 tests	K800921	54 133
K8010	EnVision FLEX, High pH (Dako Autostainer/Autostainer Plus)	400-600 tests	K801021	60 131
K8012	EnVision FLEX+, High pH (Dako Autostainer/Autostainer Plus)	400-600 tests	K801221	60 131
K8018	EnVision FLEX Hematoxylin (Dako Autostainer/Autostainer Plus)	10 x 13 mL, 400-600 tests	K801821	61 133
K8019	EnVision FLEX+ Rabbit (LINKER) (Dako Autostainer/Autostainer Plus)	3 x 13 mL, 120-190 tests	K801921	61 133
K8020	FLEX IHC Microscope Slides	5 x 100 slides	K802021	23 37 55 133 139
K8021	EnVision FLEX+ Mouse (LINKER) (Link)	40 mL, 130-200 tests	K802121	54 133
K8022	EnVision FLEX+ Mouse (LINKER) (Dako Autostainer/Autostainer Plus)	3 x 13 mL, 120-190 tests	K802221	61 133
K8023	EnVision FLEX Mini Kit, High pH (Link)	125-190 tests	K802321	53 131
K8024	EnVision FLEX Mini Kit, High pH (Dako Autostainer/Autostainer Plus)	125-190 tests	K802421	60 131

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M0613	Monoclonal Mouse Anti-Human Epithelial Membrane Antigen, Clone E29	0.2 mL 1 mL	M061329 M061301	94
M0616	Monoclonal Mouse Anti-Human Von Willebrand Factor, Clone F8/86	1 mL	M061601	117
M0617	Monoclonal Mouse Anti-Thrombomodulin, Clone 1009	1 mL	M061701	114
M0630	Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34βE12	0.2 mL 1 mL	M063029 M063001	91
M0633	Monoclonal Mouse Anti-Rabbit Macrophage, Clone RAM11	1 mL	M063301	103
M0634	Monoclonal Mouse Anti-Human Melanosome, Clone HMB-45	0.2 mL 1 mL	M063429 M063401	104
M0635	Monoclonal Mouse Anti-Human Muscle Actin, Clone HHF35	1 mL	M063501	74
M0638	Monoclonal Mouse Anti-Human Laminin, Clone 4C7	1 mL	M063801	101
M0639	Monoclonal Mouse Anti-Metallothionein, Clone E9	1 mL	M063901	104
M0701	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen, Clones 2B11 + PD7/26	0.2 mL 1 mL	M070129 M070101	84
M0718	Monoclonal Mouse Anti-Human CD68, Clone EBM11	1 mL	M071801	85
M0725	Monoclonal Mouse Anti-Vimentin, Clone V9	0.2 mL 1 mL	M072529 M072501	117
M0736	Monoclonal Mouse Anti-Human HLA-ABC Antigen, Clone W6/32	1 mL	M073601	98
M0737	Monoclonal Mouse Anti-Rabbit Immunoglobulins, Clone MR12/53	1 mL	M073701	124
M0742	Monoclonal Mouse Anti-Human CD45R0, Clone UCHL1	1 mL	M074201	84
M0744	Monoclonal Mouse Anti-Bromodeoxyuridine, Clone Bu20a	1 mL	M074401	77
M0746	Monoclonal Mouse Anti-Human HLA-DR Antigen, Alpha-Chain, Clone TAL.1B5	1 mL	M074601	99
M0747	Monoclonal Mouse Anti-Human Myeloid/Histiocyte Antigen, Clone MAC 387	1 mL	M074701	106
M0750	Monoclonal Mouse Anti-Human Prostate-Specific Antigen, Clone ER-PR8	0.2 mL	M075029	112
M0751	Monoclonal Mouse Anti-Human CD30, Clone Ber-H2	0.2 mL 1 mL	M075129 M075101	83
M0752	Monoclonal Mouse Anti-Human Neutrophil Elastase, Clone NP57	1 mL	M075201	108
M0753	Monoclonal Mouse Anti-Human CD61, Platelet Glycoprotein IIIa, Clone Y2/51	1 mL	M075301	85

△ Packaged in vials for use with Dako Autostainer instruments

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M0754	Monoclonal Mouse Anti-Human CD45RA, Clone 4KB5	1 mL	M075401	84
M0755	Monoclonal Mouse Anti-Human CD20cy, Clone L26	0.2 mL 1 mL	M075529 M075501	82
M0758	Monoclonal Mouse Anti-Human Serotonin, Clone 5HT-H209	1 mL	M075801	113
M0759	Monoclonal Mouse Anti-Human Amyloid A, Clone mc1	1 mL	M075901	75
M0760	Monoclonal Mouse Anti-Human Desmin, Clone D33	0.2 mL 1 mL	M076029 M076001	92
M0761	Monoclonal Mouse Anti-Human Glial Fibrillary Acidic Protein, Clone 6F2	1 mL	M076101	96
M0762	Monoclonal Mouse Anti-Human Neurofilament Protein, Clone 2F11	0.2 mL	M076229	107
M0775	Monoclonal Mouse Anti-Human HLA-DP, DQ, DR Antigen, Clone CR3/43	1 mL	M077501	98
M0777	Monoclonal Mouse Anti-Human C5b-9, Clone aE11	1 mL	M077701	77
M0778	Monoclonal Mouse Anti-Pneumocystis Jiroveci, Clone 3F6	1 mL	M077801	110
M0781	Monoclonal Mouse Anti-Human Thyroglobulin, Clone DAK-Tg6	1 mL	M078101	114
M0784	Monoclonal Mouse Anti-Human CD21, Clone 1F8	1 mL	M078401	82
M0785	Monoclonal Mouse Anti-Human Collagen IV, Clone CIV 22	1 mL	M078501	88
M0786	Monoclonal Mouse Anti-Human CD43, Clone DF-T1	1 mL	M078601	84
M0792	Monoclonal Mouse Anti-Human Prostatic Acid Phosphatase, Clone PASE/4LJ	1 mL	M079201	112
M0804	Monoclonal Mouse Anti-Human Epithelial Antigen, Clone Ber-EP4	0.2 mL 1 mL	M080429 M080401	93
M0814	Monoclonal Mouse Anti-Human CD68, Clone KP1	1 mL	M081401	85
M0819	Monoclonal Mouse Anti-Human CD235a, Glycophorin A, Clone JC159	1 mL	M081901	87
M0820	Monoclonal Mouse Anti-Human Glycophorin C, Clone Ret40f	1 mL	M082001	97
M0821	Monoclonal Mouse Anti-Human Cytokeratin, Clone MNF116	1 mL	M082101	89
M0823	Monoclonal Mouse Anti-Human CD31, Endothelial Cell, Clone JC70A	0.2 mL 1 mL	M082329 M082301	83
M0825	Monoclonal Mouse Anti-Human CD14, Clone TÜK4	1 mL	M082501	81
M0846	Monoclonal Mouse Anti-Human CD35, Clone Ber-MAC-DRC	1 mL	M084601	83
M0851	Monoclonal Mouse Anti-Human Smooth Muscle Actin, Clone 1A4	0.2 mL 1 mL	M085129 M085101	74
M0854	Monoclonal Mouse Anti-Cytomegalovirus, Clones CCH2 + DDG9	1 mL	M085401	92
M0857	Monoclonal Mouse Anti-Human Immunodeficiency Virus, p24, Clone Kal-1	1 mL	M085701	99
M0869	Monoclonal Mouse Anti-Human Chromogranin A, Clone DAK-A3	0.2 mL 1 mL	M086929 M086901	88
M0872	Monoclonal Mouse Anti-Human Beta-Amyloid, Clone 6F/3D	1 mL	M087201	77
M0873	Monoclonal Mouse Anti-Human Neuron-Specific Enolase, Clone BBS/NC/VI-H14	0.2 mL 1 mL	M087329 M087301	107
M0874	Monoclonal Mouse Anti-Sarcomeric Actin, Clone Alpha-Sr-1	1 mL	M087401	74
M0876	Monoclonal Mouse Anti-Human CD68, Clone PG-M1	0.2 mL 1 mL	M087629 M087601	86
M0879	Monoclonal Mouse Anti-Proliferating Cell Nuclear Antigen, Clone PC10	1 mL	M087901	111
M0880	Monoclonal Mouse Anti-Human Leukaemia, Hairy Cell, Clone DBA.44	1 mL	M088001	102
M0887	Monoclonal Mouse Anti-Human BCL2 Oncoprotein, Clone 124	0.2 mL 1 mL	M088729 M088701	76
M0888	Monoclonal Mouse Anti-Human Cytokeratin 19, Clone RCK108	1 mL	M088801	91
M0897	Monoclonal Mouse Anti-Epstein-Barr Virus, LMP, Clones CS.1-4	1 mL	M089701	94
M3501	Monoclonal Mouse Anti-Adrenocorticotropin (ACTH), Clone 02A3	1 mL	M350101	74
M3502	Monoclonal Mouse Anti-Human Luteinizing Hormone (LH), Clone C93	1 mL	M350201	102
M3503	Monoclonal Mouse Anti-Human Thyroid-Stimulating Hormone (TSH), Clone 0042	1 mL	M350301	115
M3504	Monoclonal Mouse Anti-Human Follicle-Stimulating Hormone (FSH), Clone C10	1 mL	M350401	96
M3505	Monoclonal Mouse Anti-Human Mesothelial Cell, Clone HBME-1	1 mL	M350501	104
M3512	Monoclonal Mouse Anti-Human MyoD1, Clone 5.8A	1 mL	M351201	106
M3515	Monoclonal Mouse Anti-Human Cytokeratin, Clone AE1/AE3	0.2 mL 1 mL	M351529 M351501	89
M3517	Monoclonal Mouse Anti-Human CA 19-9, Clone 1116-NS-19-9	1 mL	M351701	77
M3520	Monoclonal Mouse Anti-Human CA 125, Clone M11	1 mL	M352001	77
M3525	Monoclonal Mouse Anti-Human Epithelial-Related Antigen, Clone MOC-31	1 mL	M352501	94
M3527	Monoclonal Mouse Anti-Human CD105, Endoglin, Clone SN6h	1 mL	M352701	86
M3528	Monoclonal Mouse Anti-Human Papillomavirus (HPV), Clone K1H8	1 mL	M352801	110
M3539	Monoclonal Mouse Anti-Human Beta-Catenin, Clone β-Catenin-1	1 mL	M353901	77
M3556	Monoclonal Mouse Anti-Human Calponin, Clone CALP	1 mL	M355601	78
M3557	Monoclonal Mouse Anti-Human Caldesmon, Clone h-CD	1 mL	M355701	78
M3558	Monoclonal Mouse Anti-Human Smooth Muscle Myosin Heavy Chain, Clone SMMS-1	1 mL	M355801	107
M3559	Monoclonal Mouse Anti-Myogenin, Clone F5D	1 mL	M355901	107
M3561	Monoclonal Mouse Anti-Human Wilms' Tumor 1 (WT1) Protein, Clone 6F-H2	1 mL	M356101	117
M3562	Monoclonal Mouse Anti-Human Androgen Receptor, Clone AR441	1 mL	M356201	75

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M3563	Monoclonal Mouse Anti-Human Epidermal Growth Factor Receptor, Clone H11	1 mL	M356301	93
M3567	Monoclonal Mouse Anti-Human Fascin, Clone 55K-2	1 mL	M356701	96
M3568	Monoclonal Mouse Anti-Human Progesterone Receptor, Clone PgR 1294	1 mL	M356801	111
M3569	Monoclonal Mouse Anti-Human Progesterone Receptor, Clone PgR 636	0.2 mL 1 mL	M356929 M356901	111
M3571	Monoclonal Mouse Anti-Human CD1a, Clone 010	1 mL	M357101	79
M3575	Monoclonal Mouse Anti-Thyroid Transcription Factor, Clone 8G7G3/1	0.2 mL 1 mL	M357529 M357501	115
M3601	Monoclonal Mouse Anti-Human CD99, MIC2 Gene Products, Ewing's Sarcoma Marker, Clone 12E7	1 mL	M360101	86
M3609	Monoclonal Mouse Anti-Human Inhibin α, Clone R1	1 mL	M360901	100
M3612	Monoclonal Mouse Anti-Human E-Cadherin, Clone NCH-38	0.2 mL 1 mL	M361229 M361201	92
M3613	Monoclonal Mouse Anti-Human N-Cadherin, Clone 6G11	1 mL	M361301	107
M3614	Monoclonal Mouse Anti-Human Thymidylate Synthase, Clone TS106	1 mL	M361401	114
M3615	Monoclonal Mouse Anti-Human Prostein, Clone 10E3	0.2 mL 1 mL	M361529 M361501	112
M3616	Monoclonal Rabbit Anti-Human AMACR, Clone 13H4	0.2 mL 1 mL	M361629 M361601	75
M3617	Monoclonal Mouse Anti-Human COX-2, Clone CX-294	1 mL	M361701	88
M3619	Monoclonal Mouse Anti-Human Podoplanin, Clone D2-40	0.2 mL 1 mL	M361929 M361901	110
M3620	Monoclonal Mouse Anti-Human Prostate-Specific Membrane Antigen, Clone 3E6	0.2 mL 1 mL	M362029 M362001	112
M3621	Monoclonal Mouse Anti-Human MITF, Clone D5	0.2 mL	M362129	104
M3623	Monoclonal Mouse Anti-Human Tyrosinase, Clone T311	0.2 mL	M362329	116
M3624	Monoclonal Mouse Anti-Human Survivin, Clone 12C4	0.2 mL	M362429	114
M3625	Monoclonal Mouse Anti-Human Mammaglobin, Clone 304-1A5	0.2 mL	M362529	103
M3626	Monoclonal Mouse Anti-Human IMP3, Clone 69.1	0.2 mL	M362629	100
M3627	Monoclonal Mouse Anti-Human PTEN, Clone 6H2.1	0.2 mL	M362729	113
M3628	Monoclonal Rabbit Anti-Human Akt-pS473, Phosphorylation Site Specific, Clone 14-5	1 mL	M362801	74
M3629	Monoclonal Rabbit Anti-Human p53 Protein, Clone 318-6-11	0.2 mL 1 mL	M362929 M362901	109
M3631	Monoclonal Mouse Anti-Human CD15, Clone Carb-3	0.2 mL 1 mL	M363129 M363101	81
M3632	Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker, Clone SPM314	1 mL	M363201	113
M3636	Monoclonal Mouse Anti-Human CDX2, Clone DAK-CDX2	0.2 mL 1 mL	M363629 M363601	88
M3637	Monoclonal Mouse Anti-Villin, Clone 1D2 C3	1 mL	M363701	116
M3638	Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15, Clone 23A3	1 mL	M363801	97
M3639	Monoclonal Mouse Anti-Human MutS Protein Homolog 2, Clone FE11	0.2 mL 1 mL	M363929 M363901	105
M3640	Monoclonal Mouse Anti-Human MutL Protein Homolog 1, Clone ES05	0.2 mL 1 mL	M364029 M364001	105
M3641	Monoclonal Mouse Anti-Human CD5, Clone 4C7	1 mL	M364101	80
M3642	Monoclonal Rabbit Anti-Human Cyclin D1, Clone EP12	1 mL	M364201	88
M3643	Monoclonal Rabbit Anti-Human Estrogen Receptor α, Clone EP1	0.2 mL 1 mL	M364329 M364301	95
M3646	Monoclonal Rabbit Anti-Human MutS Protein Homolog 6, Clone EP49	0.2 mL 1 mL	M364629 M364601	106
M3647	Monoclonal Rabbit Anti-Human Postmeiotic Segregration Increased 2, Clone EP51	0.2 mL 1 mL	M364729 M364701	111
M3648	Monoclonal Mouse Anti-Human ERCC1, Clone 4F9	0.2 mL 1 mL	M364829 M364801	94
M3649	Monoclonal Mouse Anti-Human Octamer-Binding Transcription Factor 3/4, Clone N1NK	0.2 mL 1 mL	M364929 M364901	108
M3651	Monoclonal Rabbit Anti-Human Terminal Deoxynucleotidyl Transferase (TdT), Clone EP266	1 mL	M365101	114
M3652	Monoclonal Rabbit Anti-Human Cytokeratin 8/18, Clone EP17/EP30	1 mL	M365201	90
M7001	Monoclonal Mouse Anti-Human p53 Protein, Clone DO-7	0.2 mL 1 mL	M700129 M700101	109
M7002	Monoclonal Mouse Anti-Human Cytokeratin 10, Clone DE-K10	1 mL	M700201	90
M7003	Monoclonal Mouse Anti-Human Cytokeratin 10/13, Clone DE-K13	1 mL	M700301	90
M7010	Monoclonal Mouse Anti-Human Cytokeratin 18, Clone DC 10	0.2 mL	M701029	90
M7018	Monoclonal Mouse Anti-Human Cytokeratin 7, Clone OV-TL 12/30	0.2 mL 1 mL	M701829 M701801	90
M7019	Monoclonal Mouse Anti-Human Cytokeratin 20, Clone K_s20.8	0.2 mL 1 mL	M701929 M701901	91

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M7020	Monoclonal Mouse Anti-Vimentin, Clone Vim 3B4	1 mL	M702001	117
M7046	Monoclonal Mouse Anti-Cytokeratin 17, Clone E3	1 mL	M704601	90
M7047	Monoclonal Mouse Anti-Human Estrogen Receptor α, Clone 1D5	0.2 mL 1 mL	M704729 M704701	95
M7050	Monoclonal Mouse Anti-Human CD79α, Clone JCB117	0.2 mL 1 mL	M705029 M705001	86
M7052	Monoclonal Mouse Anti-Human Mast Cell Tryptase, Clone AA1	0.2 mL	M705229	103
M7064	Monoclonal Mouse Anti-Enterovirus, Clone 5-D8/1	1 mL	M706401	93
M7072	Monoclonal Mouse Anti-Human Carcinoembryonic Antigen, Clone II-7	0.2 mL 1 mL	M707229 M707201	78
M7077	Monoclonal Mouse Anti-Human Plasma Cell, Clone VS38c	1 mL	M707701	110
M7082	Monoclonal Mouse Anti-Human CD44, Phagocytic Glycoprotein-1, Clone DF1485	1 mL	M708201	84
M7103	Monoclonal Mouse Anti-Human CD8, Clone C8/144B	1 mL	M710301	81
M7157	Monoclonal Mouse Anti-Human Follicular Dendritic Cell, Clone CNA.42	1 mL	M715701	96
M7158	Monoclonal Mouse Anti-Human Hepatocyte, Clone OCH1E5	1 mL	M715801	98
M7165	Monoclonal Mouse Anti-Human CD34 Class II, Clone QBEnd 10	0.2 mL 1 mL	M716529 M716501	83
M7186	Monoclonal Mouse Anti-Human Topoisomerase IIα, Clone Ki-S1	1 mL	M718601	116
M7191	Monoclonal Mouse Anti-Human Placental Alkaline Phosphatase, Clone 8A9	0.2 mL 1 mL	M719129 M719101	110
M7195	Monoclonal Mouse Anti-Human CD246, ALK Protein, Clone ALK1	0.2 mL 1 mL	M719529 M719501	87
M7196	Monoclonal Mouse Anti-Human Melan-A, Clone A103	0.2 mL 1 mL	M719629 M719601	103
M7202	Monoclonal Mouse Anti-Human $p21^{WAF1/Cip1}$, Clone SX118	0.2 mL	M720229	108
M7203	Monoclonal Mouse Anti-Human $p27^{Kip1}$, Clone SX53G8	1 mL	M720301	108
M7211	Monoclonal Mouse Anti-Human BCL6 Protein, Clone PG-B6p	0.2 mL 1 mL	M721129 M721101	76
M7228	Monoclonal Mouse Anti-Human CD138, Clone MI15	1 mL	M722801	87
M7235	Monoclonal Mouse Anti-Human Granzyme B, Clone GrB-7	1 mL	M723501	97
M7237	Monoclonal Mouse Anti-Human Cytokeratin 5/6, Clone D5/16 B4	0.2 mL 1 mL	M723729 M723701	89
M7239	Monoclonal Mouse Anti-Human Epidermal Growth Factor Receptor, Clone E30	1 mL	M723901	92
M7240	Monoclonal Mouse Anti-Human Ki-67 Antigen, Clone MIB-1	0.2 mL 1 mL	M724029 M724001	101
M7245	Monoclonal Mouse Anti-Human Calretinin, Clone DAK-Calret 1	0.2 mL 1 mL	M724529 M724501	78
M7248	Monoclonal Mouse Anti-Rat Ki-67 Antigen, Clone MIB-5	1 mL	M724801	101
M7254	Monoclonal Mouse Anti-Human CD3, Clone F7.2.38	0.2 mL 1 mL	M725429 M725401	79
M7255	Monoclonal Mouse Anti-Human CD7, Clone CBC.37	1 mL	M725501	80
M7257	Monoclonal Mouse Anti-Human Thyroid Peroxidase, Clone MoAb47	0.2 mL	M725729	115
M7259	Monoclonal Mouse Anti-Human MUM1 Protein, Clone MUM1p	0.2 mL 1 mL	M725929 M725901	105
M7260	Monoclonal Mouse Anti-Human BCL10 Protein, Clone 151	0.2 mL	M726029	76
M7262	Monoclonal Mouse Anti-Human Laminin-5, Gamma-2 Chain, Clone 4G1	1 mL	M726201	102
M7263	Monoclonal Mouse Anti-Human MCM3 Protein, Clone 101	0.2 mL	M726329	103
M7271	Monoclonal Mouse Anti-Human CD57, Clone TB01	0.2 mL	M727129	85
M7273	Monoclonal Mouse Anti-Human Vascular Endothelial Growth Factor, Clone VG1	0.2 mL	M727329	116
M7279	Monoclonal Mouse Anti-Human LAT Protein, Clone LAT-1	0.2 mL	M727929	102
M7292	Monoclonal Mouse Anti-Human Estrogen Receptor β1, Clone PPG5/10	1 mL	M729201	95
M7293	Monoclonal Mouse Anti-Human Tissue Inhibitor of Metalloproteinases 1, Clone VT7	0.2 mL	M729329	115
M7294	Monoclonal Mouse Anti-Human uPAR, Clone R4	0.2 mL	M729429	116
M7296	Monoclonal Mouse Anti-Human CD19, Clone LE-CD19	0.2 mL	M729629	82
M7297	Monoclonal Mouse Anti-Human HER3, Clone DAK-H3-IC	0.2 mL	M729729	98
M7298	Monoclonal Mouse Anti-Human Wild-Type EGFR, Clone DAK-H1-WT	0.2 mL	M729829	93
M7299	Monoclonal Mouse Anti-Human EGFR-pY1197, Phosphorylation Site Specific, Clone DAK-H1-1197	0.2 mL	M729929	93
M7300	Monoclonal Mouse Anti-Human Ribosomal Protein S6-pS240, Phosphorylation Site Specific, Clone DAK-S6-240	0.2 mL	M730029	113
M7303	Monoclonal Mouse Anti-Human ZAP-70, Clone 2F3.2	1 mL	M730301	118
M7304	Monoclonal Mouse Anti-Human CD56, Clone 123C3	0.2 mL 1 mL	M730429 M730401	85
M7305	Monoclonal Mouse Anti-Human Nucleophosmin, Clone 376	1 mL	M730501	108
M7307	Monoclonal Mouse Anti-Human B-Cell-Specific Activator Protein, Clone DAK-Pax5	1 mL	M730701	76

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M7308	Monoclonal Mouse Anti-Human CD10, Clone 56C6	0.2 mL 1 mL	M730829 M730801	81
M7309	Monoclonal Mouse Anti-Human CD2, Clone AB75	1 mL	M730901	79
M7310	Monoclonal Mouse Anti-Human CD4, Clone 4B12	0.2 mL 1 mL	M731029 M731001	80
M7312	Monoclonal Mouse Anti-Human CD23, Clone DAK-CD23	1 mL	M731201	82
M7313	Monoclonal Mouse Anti-Human MUC2, Clone CCP58	0.2 mL 1 mL	M731329 M731301	104
M7314	Monoclonal Rabbit Anti-Human ERG, Clone EP111	0.2 mL 1 mL	M731429 M731401	94
M7315	Monoclonal Mosue Anti-Human Synaptophysin, Clone DAK-SYNAP	0.2 mL 1 ml	M731529 M731501	114
M7316	Monoclonal Mouse Anti-Human MUC5AC, Clone CLH2	0.2 mL 1 mL	M731629 M731601	105
M7317	Monoclonal Mouse Anti-Human p63 Protein, Clone DAK-p63	0.2 mL 1 mL	M731729 M731701	109
P				
P0141	Polyclonal Rabbit Anti-Guinea Pig Immunoglobulins/HRP	2 mL	P014102	123
P0159	Polyclonal Rabbit Anti-Cow Immunoglobulins/HRP	2 mL	P015902	123
P0160	Polyclonal Rabbit Anti-Goat Immunoglobulins/HRP	2 mL	P016002	123
P0161	Polyclonal Rabbit Anti-Mouse Immunoglobulins/HRP	2 mL	P016102	123
P0163	Polyclonal Rabbit Anti-Sheep Immunoglobulins/HRP	2 mL	P016302	124
P0212	Polyclonal Rabbit Anti-Human IgA, IgG, IgM, Kappa, Lambda/HRP	2 mL	P021202	99 121
P0214	Polyclonal Rabbit Anti-Human IgG/HRP	2 mL	P021402	99 121
P0215	Polyclonal Rabbit Anti-Human IgM/HRP	2 mL	P021502	100 122
P0217	Polyclonal Swine Anti-Rabbit Immunoglobulins/HRP	2 mL	P021702	124
P0260	Polyclonal Rabbit Anti-Mouse Immunoglobulins/HRP	2 mL	P026002	123
P0397	Streptavidin/HRP	1 mL	P039701	136
P0399	Polyclonal Swine Anti-Rabbit Immunoglobulins/HRP	1 mL	P039901	124
P0447	Polyclonal Goat Anti-Mouse Immunoglobulins/HRP	1 mL	P044701	123
P0448	Polyclonal Goat Anti-Rabbit Immunoglobulins/HRP	1 mL	P044801	123
P0449	Polyclonal Rabbit Anti-Goat Immunoglobulins/HRP	1 mL	P044901	123
P0450	Polyclonal Rabbit Anti-Rat Immunoglobulins/HRP	1 mL	P045001	124
P5100	Polyclonal Rabbit Anti-FITC/HRP, Rabbit F(Ab')	0.5 mL	P510050	172
PT102	PT Link Tank	1 unit	PT10230	38
PT103	PT Link Tank Cover	1 unit	PT10330	38
PT109	PT Link Rinse Station	1 container and lid	PT10930	38
PT200	PT Link	1 unit	PT20027	38
PT202	PT Link Tank	1 unit	PT20230	38
PT203	PT Link Tank Cover	1 unit	PT20330	38
R				
R0156	Polyclonal Swine Anti-Rabbit Immunoglobulins/TRITC	2 mL	R015602	124
S				
S0809	Antibody Diluent	50 mL 125 mL	S080981 S080983	137
S1699	Target Retrieval Solution, Concentrated x 10	500 mL	S169984	138
S1700	Target Retrieval Solution	500 mL	S170084	138
S1962	Methyl Green, Counterstain	500 mL	S196230	138
S1964	Ultramount, Aqueous Permanent Mounting Medium, Ready-to-Use	15 mL	S196430	139
S1966	Tween 20	100 mL	S196630	138
S1967	DAB Away®	50 tests	S196730	55
S1968	Tris-Buffered Saline (TBS), pH 7.6	2 x 5 L	S196830	138
S2002	Dako Pen	1 unit	S200230	139
S2003	Dual Endogenous Enzyme Block	15 mL 10 x 11 mL△	S200380 S200389	55 138
S2019	Dako REAL Proteinase K (40x)	4 mL	S201930	55 139
S2020	Dako REAL Hematoxylin	500 mL	S202084	138
S2022	Dako REAL Antibody Diluent	250 mL	S202230	137
S2023	Dako REAL Peroxidase-Blocking Solution	250 mL	S202386	55 138
S2031	Dako REAL Target Retrieval Solution (10x)	500 mL	S203130	138
S2032	Dako REAL Proteinase K Diluent	250 mL	S203230	55 138
S2367	Dako Target Retrieval Solution, pH 9 (x 10)	500 mL	S236784	138

△ Packaged in vials for use with Dako Autostainer instruments

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
S2368	Dako Target Retrieval Solution, pH 9, Ready-to-Use	500 mL	S236884	138
S2369	Dako Target Retrieval Solution, Citrate pH 6 (x 10)	500 mL	S236984	138
S2375	Dako Target Retrieval Solution, pH 9 (10x), (3-in-1)	500 mL	S237584	138
S2450	Hybridizer (110-120 V)	1 unit	S245030	164
S2451	Hybridizer (200-240 V)	1 unit	S245130	164
S2452	Hybridizer Humidity Control Strips	20 strips	S245230	164
S2700	Label Printer (Dako Autostainer Plus)	1 unit	S270030	140
S2801	Pascal Quality Strips	100 strips	S280130	139
S3001	Tris-Buffered Saline (TBS)	6 x 1 L	S300130	138
S3002	Pepsin	6 x 2 g	S300230	139
S3003	Silanized Slides	100 slides	S300330	139
S3004	Proteinase K (Concentrate)	2 mL	S300402	139
S3006	Dako Wash Buffer 10x	1 L	S300685	55 138
S3007	Proteolytic Enzyme, Ready-to-Use	10 x 11 mL△	S300789	55 139
S3020	Proteinase K, Ready-to-Use	150 tests, 15 mL 1100 tests, 110 mL 1100 tests, 10 x 11 mL△	S302080 S302030 S302089	55 139
S3022	Antibody Diluent with Background-Reducing Components	50 mL 125 mL	S302281 S302283	137
S3023	Fluorescence Mounting Medium	15 mL	S302380	139
S3024	Phosphate-Buffered Saline (PBS), pH 7.0	6 x 1 L	S302430	138
S3025	Faramount, Aqueous Mounting Medium, Ready-to-Use	15 mL	S302580	139
S3301	Hematoxylin, for the Dako Autostainer	500 mL	S330130	55 149 151 153
S3306	Tris-Buffered NaCl Solution with Tween 20 (TBST), pH 7.6, Concentrated x 10	500 mL	S330630	138
S3309	Hematoxylin, Mayer's	500 mL	S330930	138
S3386	Slide Labels, Large Flap	500 labels	S338630	141
S3393	Slide Labels, Small Flap	500 labels	S339330	141
S3417	Slide Label Kit, Large Flap	3000 labels	S341730	141
S3424	Dako Autostainer Reagent Racks	2 racks	S342430	55
S3425	Dako Autostainer Reagent Vials	100 vials	S342530	55
S3704	Autostainer Slide Racks	4 racks	S370430	55
SK001	HercepTest for Automated Link Platforms	50 tests	SK00121	39 152
SK108	Dako DuoCISH	20 tests	SK10890	166
SK109	*HER2* CISH pharmDx Kit	20 tests	SK10911	159 170
SK110	EnVision DuoFLEX Doublestain System (Link)	100-150 tests, 30 mL	SK11021	54 134
SK200	User-Fillable Reagent Bottles, 5 mL Capacity (Link)	5 mL	SK20005	37
SK201	User-Fillable Reagent Bottles, 12 mL Capacity (Link)	12 mL	SK20110	37
SK202	User-Fillable Reagent Bottles, 25 mL Capacity (Link)	25 mL	SK20225	37
SK203	User-Fillable Bottles, 50 mL Capacity (Link)	50 mL	SK20365	37
SK301	Instrument Cleaning Kit (Link)	18 runs	SK30190	37
SK308	Hematoxylin (Link)	45 mL	SK30881	37 151 153
SK310	ER/PR pharmDx Kit (Link)	50 tests	SK31090	39 150
SL002	Clear-It Cleaning Reagent for Dako Autostainer	3.8 L	SL00230	55
X				
X0590	Biotin Blocking System	15 mL + 15 mL	X059030	137
X0901	Swine Serum (Normal)	10 mL	X090110	125
X0902	Rabbit Serum (Normal)	10 mL	X090210	125
X0903	Negative Control, Rabbit Immunoglobulin Fraction (Normal)	2 mL 10 mL	X090302 X090310	125
X0907	Goat Serum (Normal)	10 mL	X090710	125
X0909	Protein Block, Serum Free	110 mL	X090930	138
X0910	Mouse Serum (Normal)	1 mL	X091001	125
X0931	Control Reagent, Mouse IgG1	1 mL	X093101	125
X0936	Negative Control, Rabbit Immunoglobulin Fraction (Solid-Phase Absorbed)	2 mL	X093602	125
X0942	Control Reagent, Mouse IgM	1 mL	X094201	125
X0943	Control Reagent, Mouse IgG2a	1 mL	X094301	125
X0944	Control Reagent, Mouse IgG2b	1 mL	X094401	125
X3021	Levamisole Solution	15 mL	X302130	138
Y				
Y1404	Human Papillomavirus (HPV) Wide Spectrum DNA Probe Cocktail/Biotinylated	50 tests, 1 mL	Y140401	184
Y1411	Human Papillomavirus (HPV) Types 6/11 DNA Probe Mix/Biotinylated	50 tests, 1 mL	Y141101	184

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Code	Product	Package Size	Order No.	Page
Y1443	GenPoint™ HPV, Biotinylated DNA Probe	1 mL	Y144301	184
Y5200	Epstein-Barr Virus (EBER) PNA Probe/Fluorescein	40 tests, 1 mL	Y520001	186
Y5202	Kappa/Lambda mRNA PNA Probes/Fluorescein	40 tests, 2 x 1 mL	Y520230	186
Y5400	*ETV6* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540029	176
Y5401	*MLL* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540129	177
Y5402	*TCF3* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540229	179
Y5403	*BCR* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540329	175
Y5404	*TLX3* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540429	179
Y5405	*SIL-TAL1* FISH DNA Probe, Sub-Deletion Signal	20 tests, 0.2 mL	Y540529	178
Y5406	*IGH* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540629	176
Y5407	*BCL2* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540729	174
Y5408	*BCL6* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540829	174
Y5409	*MALT1* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y540929	177
Y5410	*MYC* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y541029	178
Y5414	*CCND1* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y541429	175
Y5417	*ALK* FISH DNA Probe, Split Signal	20 tests, 0.2 mL	Y541729	173
Y5500	*EGFR*/CEN-7 FISH Probe Mix	20 tests, 0.2 mL	Y550029	180
Y5504	*MYC*/CEN-8 FISH Probe Mix	20 tests, 0.2 mL	Y550429	180
Z				
Z0097	Polyclonal Rabbit Anti-Laminin	1 mL	Z009701	102
Z0196	Polyclonal Swine Anti-Rabbit Immunoglobulins	2 mL	Z019602	124
Z0259	Polyclonal Rabbit Anti-Mouse Immunoglobulins	2 mL	Z025902	123
Z0311	Polyclonal Rabbit Anti-S100	0.2 mL 1 mL	Z031129 Z031101	113
Z0334	Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein	0.2 mL 1 mL	Z033429 Z033401	96 121
Z0420	Polyclonal Goat Anti-Mouse Immunoglobulins	1 mL	Z042001	123
Z0458	Polyclonal Rabbit Anti-Ubiquitin	1 mL	Z045801	116
Z0622	Polyclonal Rabbit Anti-Cytokeratin, Wide Spectrum Screening	1 mL	Z062201	91
Z5116	Polyclonal Rabbit Anti-PGP 9.5	1 mL	Z511601	110

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