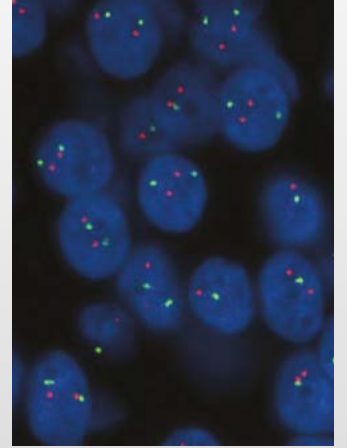
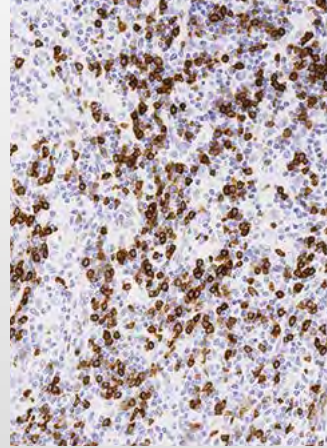
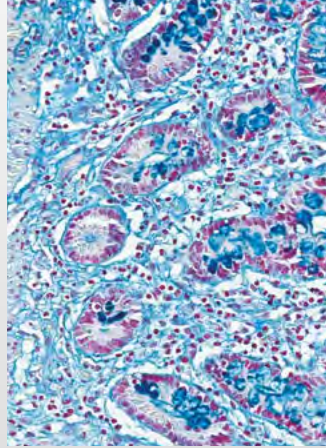
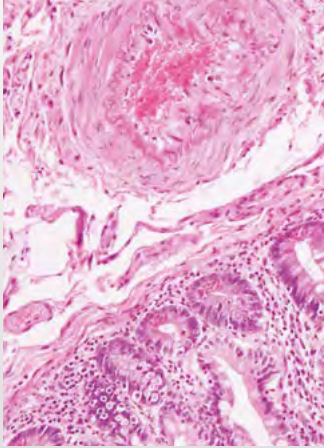


2016

Catalog | Products & Services



Agilent Pathology Solutions



How to contact Dako



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ColorGraphics General Statement

This catalog was printed by an environmentally sustainable printer with Chain-of Custody certification under the Forest Stewardship Council (FSC) and the Sustainable Forestry Initiative (SFI) with provisional status in the Sustainable Green Partnership (SGP) pending full certification. Environmental improvement and conservation were integrated into the printing process by the use of recycling processes and environmentally sustainable or eco-certified materials having low VOC levels and/or an aqueous or high vegetable-based content.

For your convenience, write your Dako customer account number(s) below:

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 assays, including the first FDA-approved tests for the PD-L1 marker. These products are the most recent example of our leadership in the diagnostics space, as the first company providing FDA-approved tests for PD-L1. In addition, we are proud to introduce 15 new FLEX Ready-to-Use antibodies for Dako Omnis as well as new SureFISH* probes are introduced.

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.

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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 rpssupport@agilent.com or visit our homepage www.dako.com/index/products.htm.

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New Products

pharmDx Solution

PD-L1 IHC 22C3 pharmDx (Code SK006)

For in vitro diagnostic use. PD-L1 IHC 22C3 pharmDx is a qualitative immunohistochemical assay using Monoclonal Mouse Anti-PD-L1, Clone 22C3 intended for use in the detection of PD-L1 protein in formalin-fixed, paraffin-embedded (FFPE) non-small cell lung cancer (NSCLC) tissue using EnVision FLEX visualization system on Autostainer Link 48. PD-L1 protein expression is determined by using Tumor Proportion Score (TPS), which is the percentage of viable tumor cells showing partial or complete membrane staining. The specimen should be considered PD-L1 positive if TPS \geq 50% of the viable tumor cells exhibit membrane staining at any intensity.

PD-L1 IHC 22C3 pharmDx is indicated as an aid in identifying NSCLC patients for treatment with KEYTRUDA® (pembrolizumab).



PD-L1 IHC 28-8 pharmDx (Code SK005)

For in vitro diagnostic use. PD-L1 IHC 28-8 pharmDx is a qualitative immunohistochemical assay using Monoclonal Rabbit Anti-PD-L1, Clone 28-8 intended for use in the detection of PD-L1 protein in formalin-fixed paraffin-embedded (FFPE) non-squamous non-small cell lung cancer (NSCLC) and melanoma tissues using EnVision FLEX visualization system on Autostainer Link 48. PD-L1 protein expression is defined as the percentage of tumor cells exhibiting positive membrane staining at any intensity.

PD-L1 expression as detected by PD-L1 IHC 28-8 pharmDx in non-squamous NSCLC may be associated with enhanced survival from OPDIVO® (nivolumab).

Positive PD-L1 status as determined by PD-L1 IHC 28-8 pharmDx in melanoma is correlated with the magnitude of the treatment effect on progression-free survival from OPDIVO®.



New Products (continued)

Advanced Staining Solutions

Dako Omnis Solution for IHC and ISH

FLEX Ready-to-Use Antibodies for Dako Omnis				
Page	Code		Product	Package Size
26 73	GA500	Rb a Hu	Alpha-1-Fetoprotein, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
26 75	GA702	Mo a Hu	Beta-Catenin, Clone β -Catenin-1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
26 76	GA515	Rb a Hu	Calcitonin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
26 76	GA054	Mo a Hu	Caldesmon, Clone h-CD, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
27 79	GA623	Mo a Hu	CD8, Clone C8/114B, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
27 81	GA781	Mo a Hu	CD23, Clone DAK-CD23, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
28 86	GA508	Rb a Hu	Chorionic Gonadotropin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
28 87	GA083	Rb a Hu	Cyclin D1, Clone EP12, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
29 92	GA659	Rb a Hu	ERG, Clone EP111, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
30 96	GA510	Rb a Hu	IgA, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
30 100	GA074	Mo a Hu	Mammaglobin, Clone 304-1A5, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
31 104	GA607	Mo a Hu	Neurofilament Protein, Clone 2F11, Ready-to-Use (Dako Omnis)	60 tests, 12 mL
31 109	GA075	Mo a Hu	Renal Cell Carcinoma Marker, Clone SPM314, Ready-to-Use (Dako Omnis)	60 tests, 12 mL

Autostainer Link Solution for IHC

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



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

New Products (continued)

Molecular Pathology

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

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

H&E Solution

Dako CoverStainer Slide Rack (Code CS119)

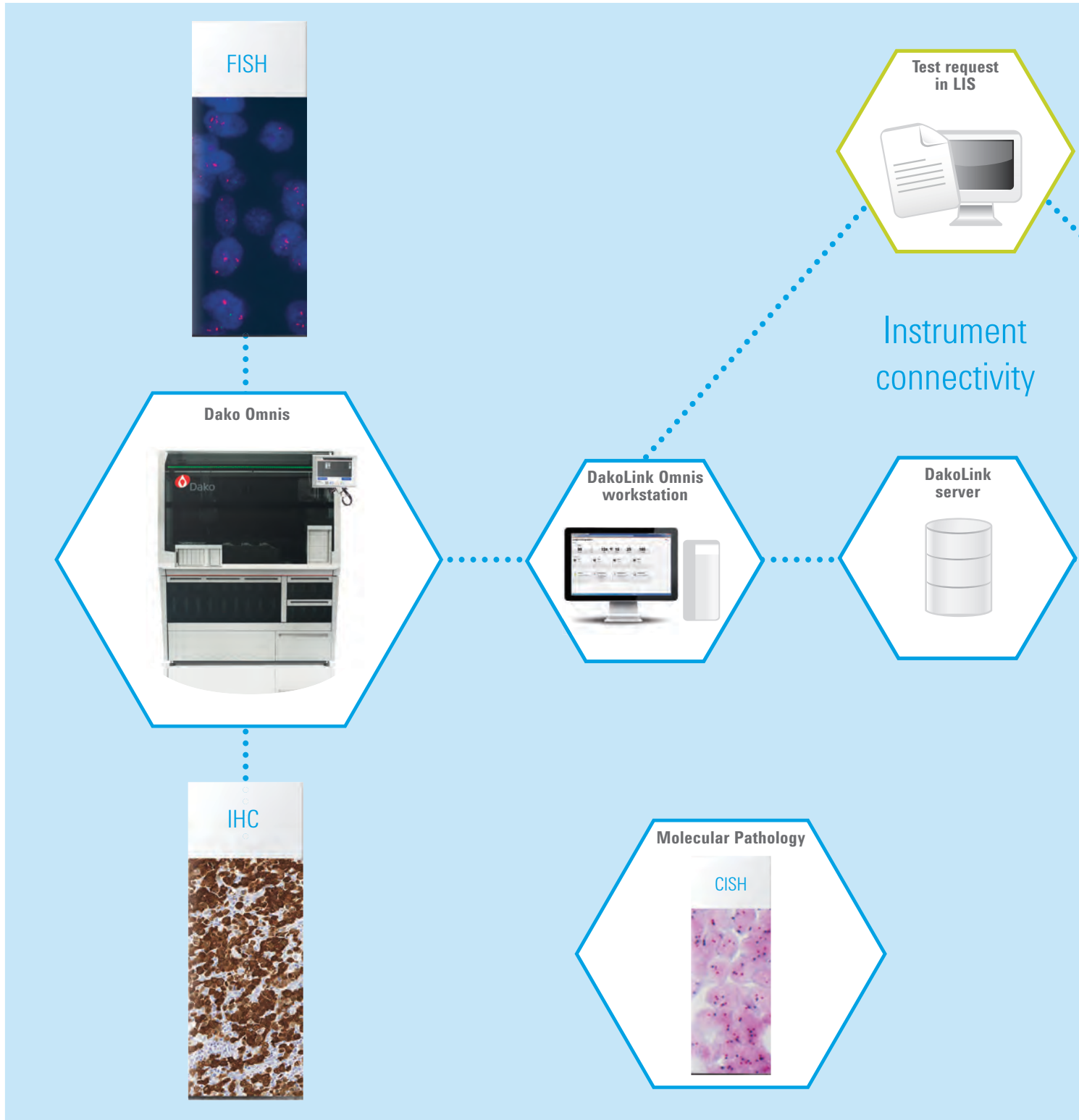
The slide rack for Dako CoverStainer has a unique design which minimizes reagent carryover, extending reagent longevity and enabling consistent staining results.

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.

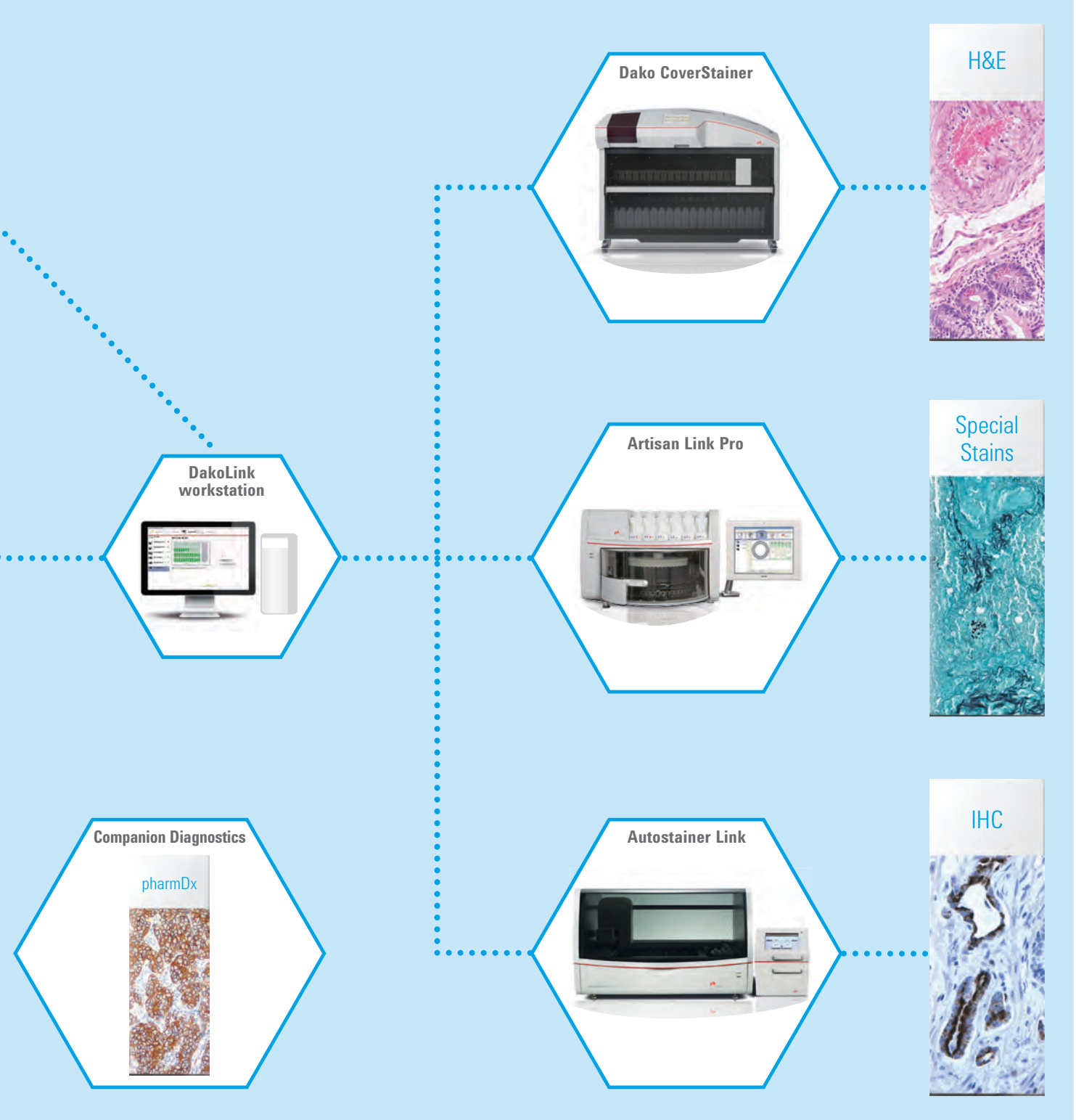


* SureFISH probes are manufactured by Agilent Technologies, Inc.

Get the full picture with Dako Solutions



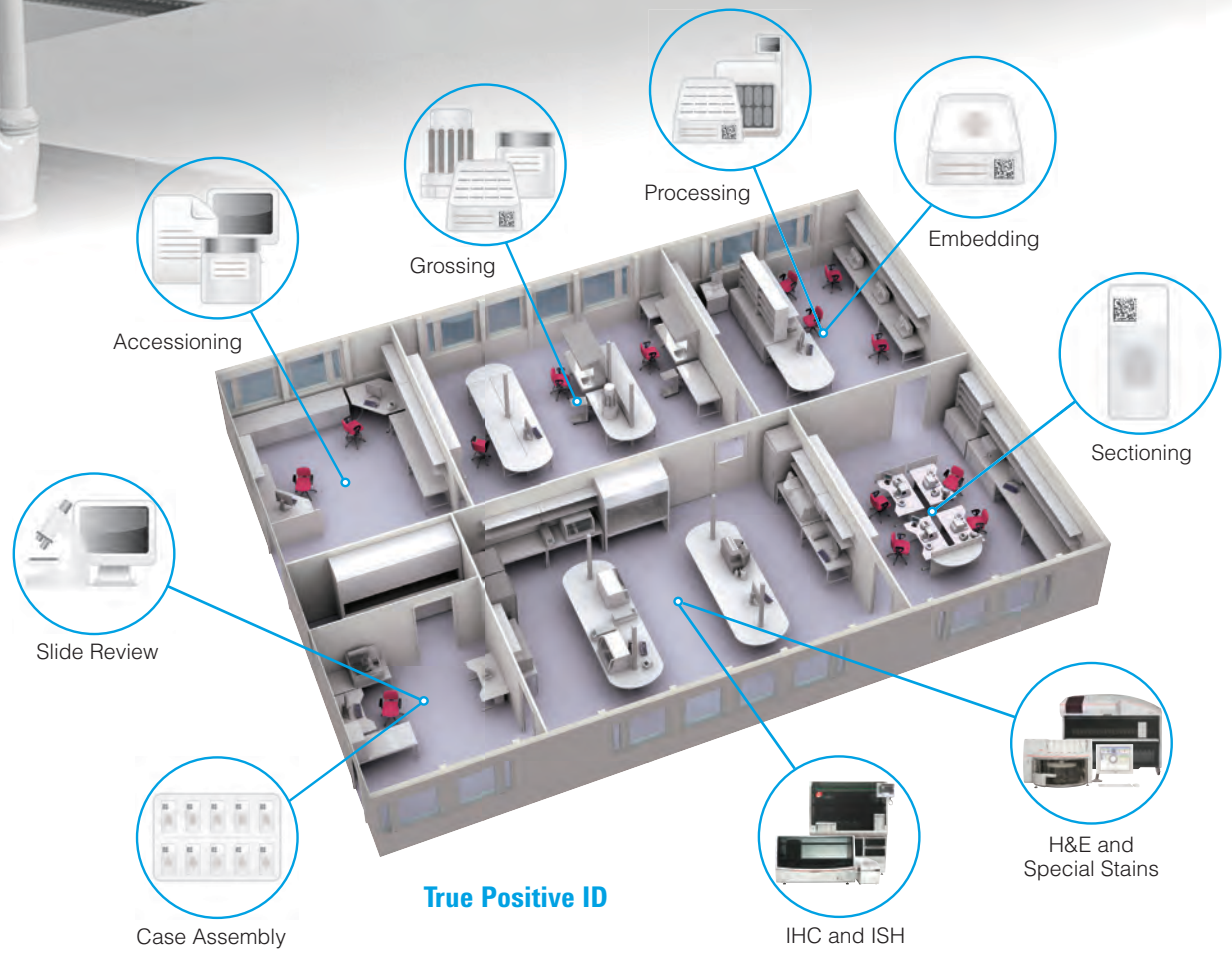
Supported by excellent service and support for your laboratory



Dako Lab Control Solutions

Experience a new level of lab control and insight

14





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

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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.



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. 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.

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.

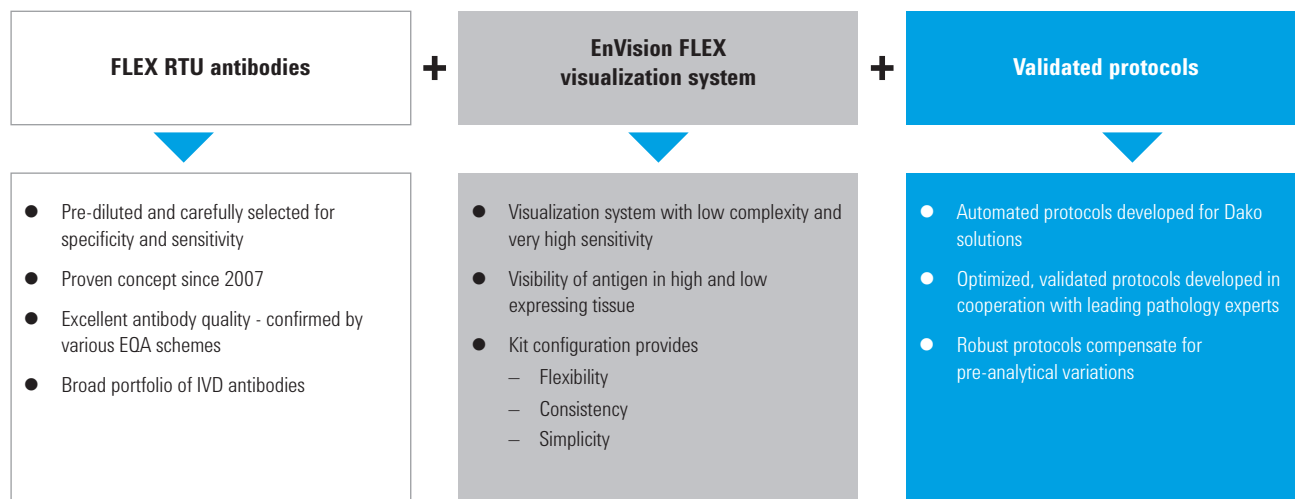
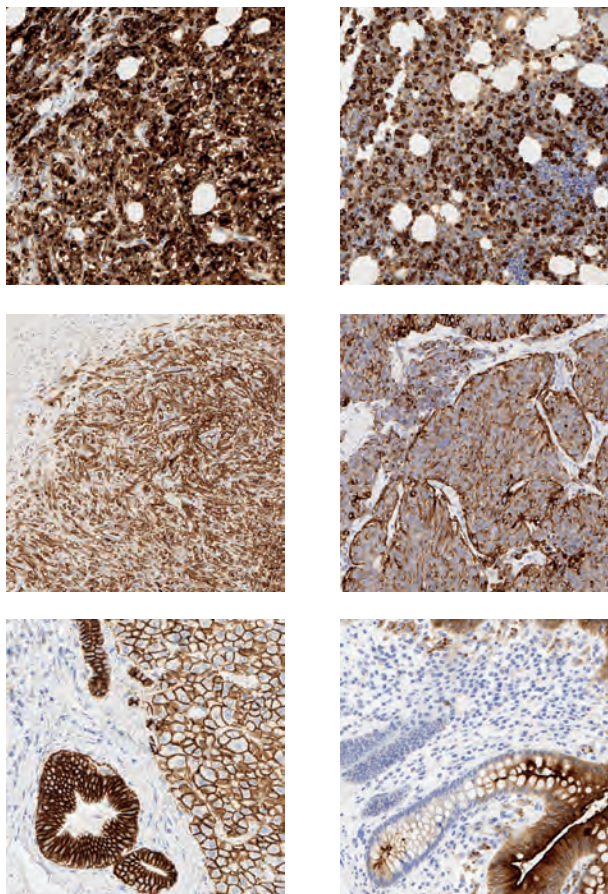
The Dako optimized protocol ensures that every test performance is highly robust, accurate and consistent, compensating for variations in pre-analytical parameters to provide increased certainty slide after slide.

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.



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 through-put 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

IVD 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.



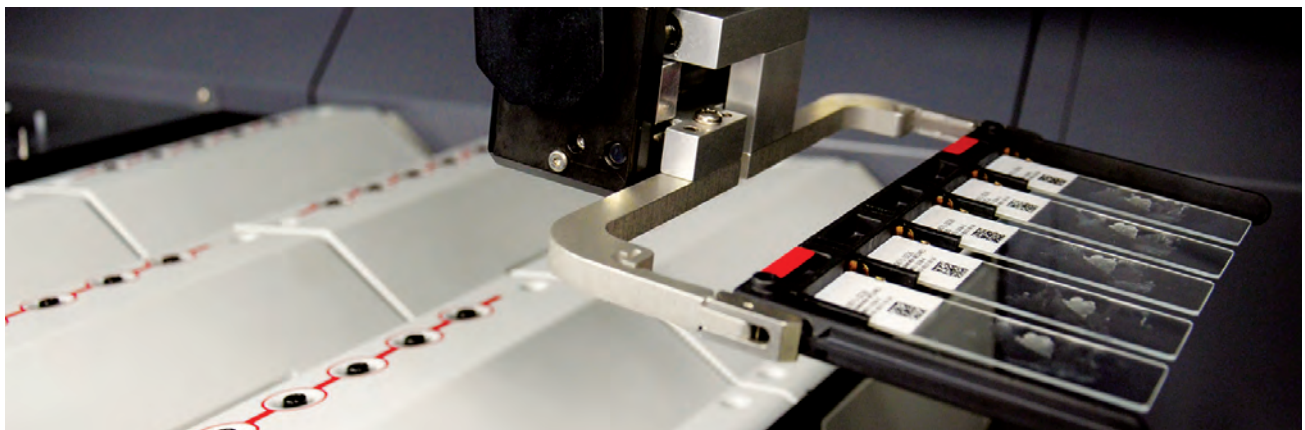
Batch or continuous flow, the choice is yours. Continuous sample loading allows prioritized patient cases to stream seamlessly into an ongoing workflow. Full flexibility for the unpredictable lab environment.

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.



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 69.5" H (145 cm W x 79.3 cm D x 176.5 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)

IVD 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)

IVD 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

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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 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.

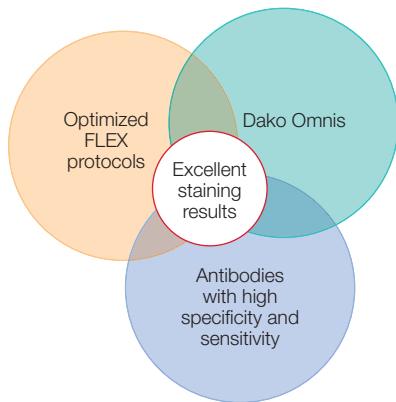


Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis)

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.

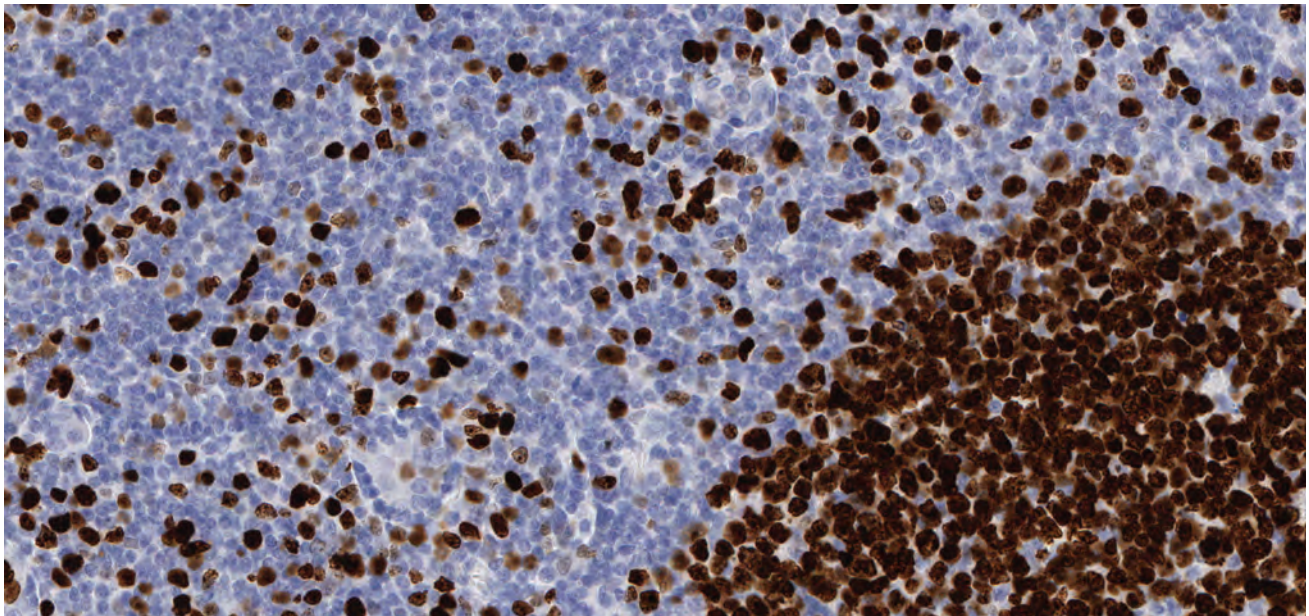
Each FLEX RTU antibody is accompanied by a validated protocol that is optimized to absorb variations related to pre-analytical factors. This enables a reliable staining performance in various tissue types containing both high and low-expression structures. The antibody specificity and protocol have both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

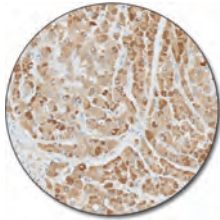


Primary Antibodies (FLEX Ready-to-Use) (Dako Omnis) (continued)

Polyclonal Rabbit Anti-Human
Alpha-1-Fetoprotein

IVD GA500 **NEW**

60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CA 125

IVD GA701 Clone M11

60 tests, 12 mL

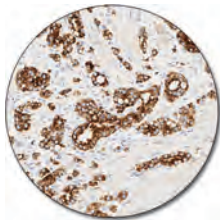


Ovarian carcinoma (FFPE) stained with FLEX Anti-CA 125, Code GA701.

Monoclonal Rabbit Anti-Human
AMACR

IVD GA060 Clone 13H4

60 tests, 12 mL

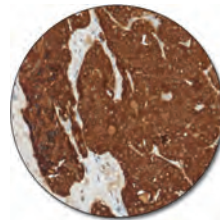


Prostate adenocarcinoma (FFPE) stained with FLEX Anti-AMACR, Code GA060.

Polyclonal Rabbit Anti-Human
Calcitonin

IVD GA515 **NEW**

60 tests, 12 mL



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

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

IVD GA650 Clone DAK-Pax5

60 tests, 12 mL

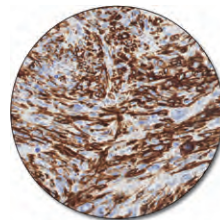


Lymph node (FFPE) stained with FLEX Anti-BSAP, Code GA650.

Monoclonal Mouse Anti-Human
Caldesmon

IVD GA054 Clone h-CD **NEW**

60 tests, 12 mL

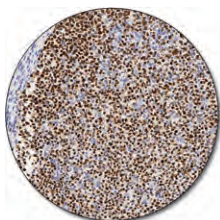


Leiomyosarcoma (FFPE) stained with FLEX Anti-Caldesmon, Code GA054.

Monoclonal Mouse Anti-Human
BCL6 Protein

IVD GA625 Clone PG-B6p

60 tests, 12 mL

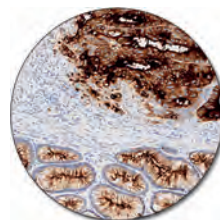


Follicular lymphoma (FFPE) stained with FLEX Anti-BCL6, Code GA625.

Monoclonal Mouse Anti-Human
Carcinoembryonic Antigen (CEA)

IVD GA622 Clone II-7

60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
Beta-Catenin

IVD GA702 Clone β -Catenin-1 **NEW**

60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human
Carcinoembryonic Antigen (CEA)

IVD GA526

60 tests, 12 mL

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

Monoclonal Mouse Anti-Human **CD2**

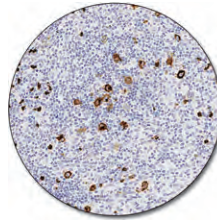
IVD GA651 Clone AB75 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD15**

IVD GA062 Clone Carb-3 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human **CD3**

IVD GA503 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD20cy**

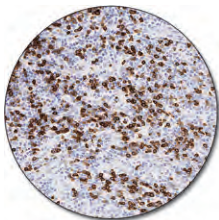
IVD GA604 Clone L26 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD7**

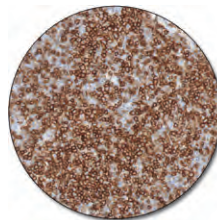
IVD GA643 Clone CBC.37 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD23**

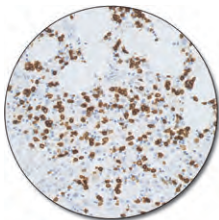
IVD GA781 Clone DAK-CD23 **NEW** 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD8**

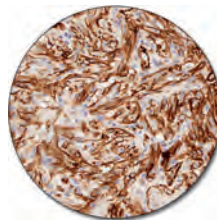
IVD GA623 Clone C8/144B **NEW** 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD31, Endothelial Cell**

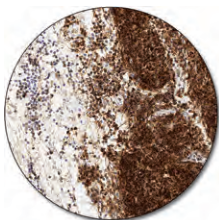
IVD GA610 Clone JC70A 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD10**

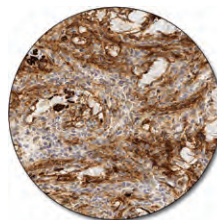
IVD GA648 Clone 56C6 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD34 Class II**

IVD GA632 Clone QBEnd 10 60 tests, 12 mL



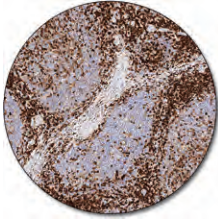
Angiosarcoma (FFPE) stained with FLEX Anti-CD34, Code GA632.

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

Monoclonal Mouse Anti-Human
CD43

IVD GA636 Clone DF-T1

60 tests, 12 mL

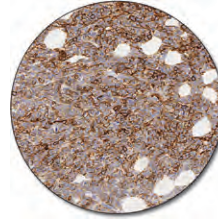


Tonsil (FFPE) stained with FLEX Anti-CD43, Code GA636.

Monoclonal Mouse Anti-Human
CD138

IVD GA642 Clone MI15

60 tests, 12 mL

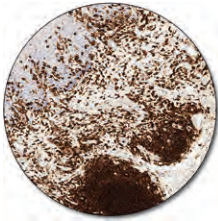


High grade myeloma (FFPE) stained with FLEX Anti-CD138, Code GA642.

Monoclonal Mouse Anti-Human
CD45, Leucocyte Common Antigen

IVD GA751 Clones 2B11 + PD7/26

60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CD246, ALK Protein

IVD 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
CD68

IVD GA609 Clone KP1

60 tests, 12 mL

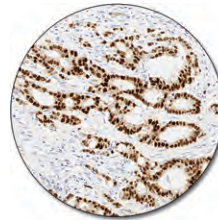


Tonsil (FFPE) stained with FLEX Anti-CD68, Code GA609.

Monoclonal Mouse Anti-Human
CDX2

IVD GA080 Clone DAK-CDX2

60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CD68

IVD GA613 Clone PG-M1

60 tests, 12 mL

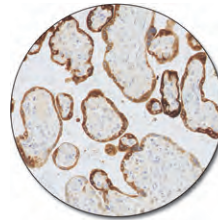


Tonsil (FFPE) stained with FLEX Anti-CD68, Code GA613.

Polyclonal Rabbit Anti-Human
Chorionic Gonadotropin (hCG)

IVD GA508 **NEW**

60 tests, 12 mL

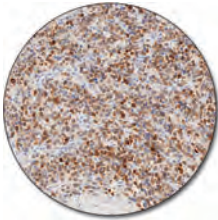


Placenta (FFPE) stained with FLEX Anti-Human Chorionic Gonadotropin, Code GA508.

Monoclonal Mouse Anti-Human
CD79α

IVD GA621 Clone JCB117

60 tests, 12 mL



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

Monoclonal Rabbit Anti-Human
Cyclin D1

IVD GA083 Clone EP12 **NEW**

60 tests, 12 mL



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

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

Monoclonal Mouse Anti-Human Cytokeratin

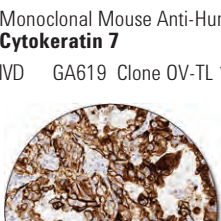
IVD GA053 Clone AE1/AE3 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Cytokeratin 5/6

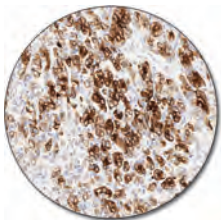
IVD GA780 Clone D5/16 B4 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Cytokeratin 18

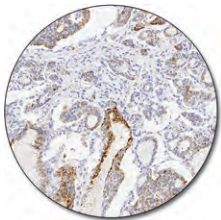
IVD GA618 Clone DC 10 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Cytokeratin 19

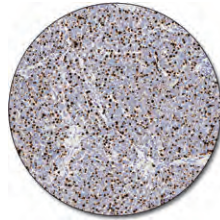
IVD GA615 Clone RCK108 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Cytokeratin 20

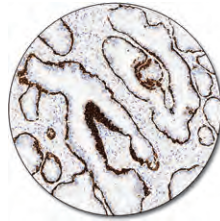
IVD GA777 Clone K_s20.8 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight

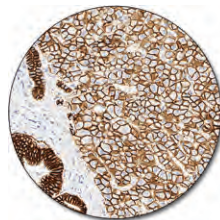
IVD GA051 Clone 34βE12 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human E-Cadherin

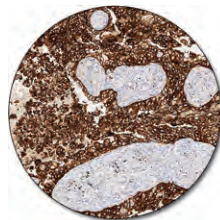
IVD GA059 Clone NCH-38 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Epithelial Antigen

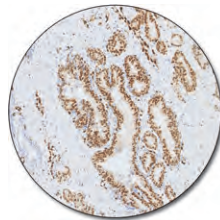
IVD GA637 Clone Ber-EP4 60 tests, 12 mL



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

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

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



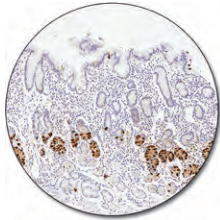
Prostate carcinoma (FFPE) stained with FLEX Anti-ERG, Code GA659.

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

Polyclonal Rabbit Anti-Human
Gastrin

IVD GA519

60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human
Kappa Light Chains

IVD GA506

60 tests, 12 mL



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

Polyclonal Rabbit Anti-
Glial Fibrillary Acidic Protein

IVD GA524

60 tests, 12 mL

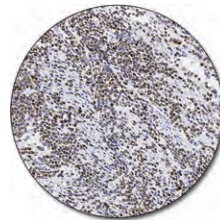


Glioblastoma (FFPE) stained with FLEX Anti-GFAP, Code GA524.

Monoclonal Mouse Anti-Human
Ki-67 Antigen

IVD GA626 Clone MIB-1

60 tests, 12 mL

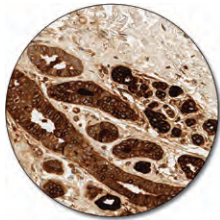


High grade lymphoma (FFPE) stained with FLEX Anti-Ki-67, Code GA626.

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

IVD GA077 Clone 23A3

60 tests, 12 mL

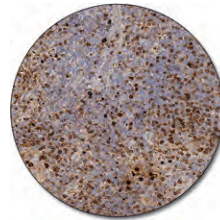


Breast hyperplasia (FFPE) stained with FLEX Anti-GCDFP-15, Code GA077.

Polyclonal Rabbit Anti-Human
Lambda Light Chains

IVD GA507

60 tests, 12 mL

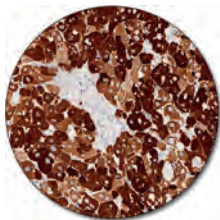


Tonsil (FFPE) stained with FLEX Anti-Lambda Light Chains, Code GA507.

Monoclonal Mouse Anti-Human
Hepatocyte

IVD GA624 Clone OCH1E5

60 tests, 12 mL

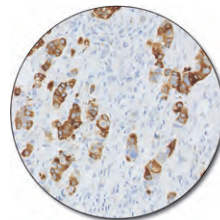


Hepatocellular carcinoma (FFPE) stained with FLEX Anti-Hepatocyte, Code GA624.

Monoclonal Mouse Anti-Human
Mammaglobin

IVD GA074 Clone 304-1A5 **NEW**

60 tests, 12 mL

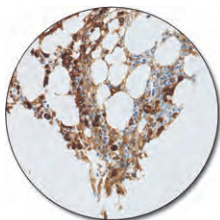


Invasive ductal carcinoma (FFPE) stained with FLEX Anti-Mammaglobin, Code GA074.

Polyclonal Rabbit Anti-Human
IgA

IVD GA510 **NEW**

60 tests, 12 mL

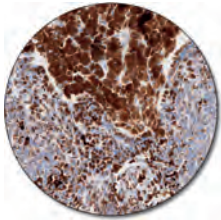


Multiple myeloma (FFPE, bone marrow) stained with FLEX Anti-IgA, Code GA510.

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

Monoclonal Mouse Anti-Human **Melanosome**

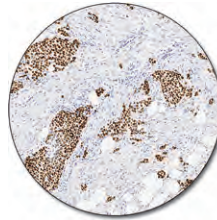
IVD GA052 Clone HMB-45 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **p53 Protein**

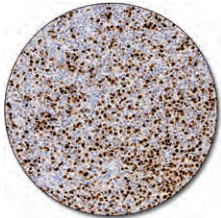
IVD GA616 Clone DO-7 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **MUM1 Protein**

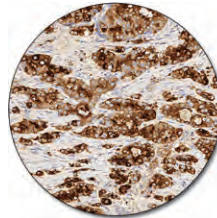
IVD GA644 Clone MUM1p 60 tests, 12 mL



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

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

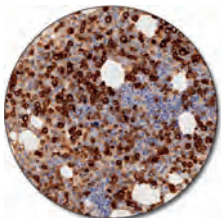
IVD GA514 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human **Myeloperoxidase**

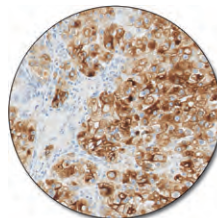
IVD GA511 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **Renal Cell Carcinoma Marker**

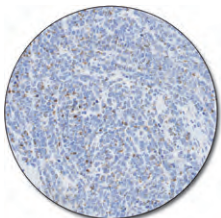
IVD GA075 Clone SPM314 **NEW** 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **Neurofilament Protein**

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



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

Polyclonal Rabbit Anti- **S100**

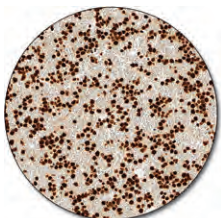
IVD GA504 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **Nucleophosmin**

IVD GA652 Clone 376 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human **Thyroglobulin**

IVD GA509 60 tests, 12 mL



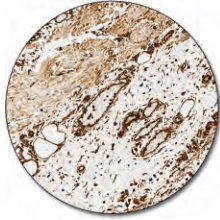
Thyroid follicular carcinoma (FFPE) stained with FLEX Anti-Thyroglobulin, Code GA509.

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

Monoclonal Mouse Anti-Vimentin

IVD GA630 Clone V9

60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human Von Willebrand Factor

IVD 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

IVD 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

IVD 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	GV800 + GV805	GV800 + GV821 (Mouse LINKER)	GV800 + GV805 + GV821 (Mouse LINKER)
	or	or	or	or
Code	GV823	GV823 + GV805	GV800 + GV809 (Rabbit LINKER)	GV800 + GV805 + GV809 (Rabbit LINKER)

EnVision FLEX, High pH (Dako Omnis)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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 flexibility 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 by implementing 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

IVD 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.

Get high quality staining results - on time

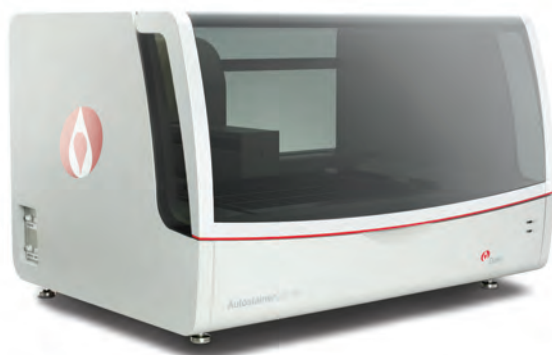
- Process 48 slides in less than three hours. This makes it possible to finalize 96 slides during a regular working day with only one Autostainer Link 48 and one PT Link
- Gain up to 45 minutes of your run time compared to our previously fastest Autostainer – Autostainer Plus
- Get the most out of your 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

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.

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)

IVD 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

IVD 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)

IVD 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

IVD SK200	25 bottles	5 mL
IVD SK201	25 bottles	12 mL
IVD SK202	25 bottles	25 mL
IVD 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

IVD 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 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

IVD 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

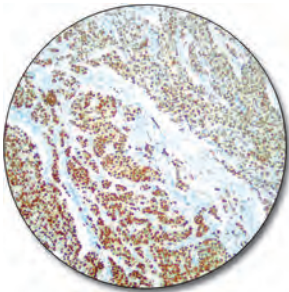
IVD SK310

50 tests

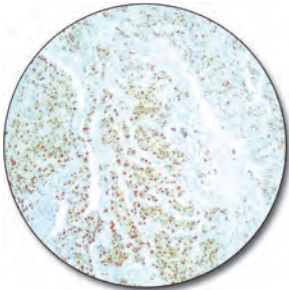
ER/PR pharmDx Kit is a semi-quantitative immunohistochemical kit system to identify estrogen receptor (ER) α protein and progesterone receptor (PR) protein expression in normal and neoplastic tissues. The assay specifically detects the ER α protein as well as the PR protein located in the cell nuclei 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

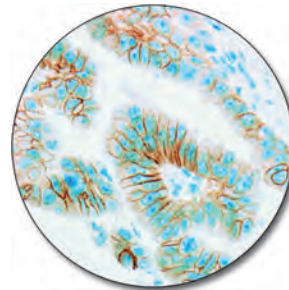
IVD SK001

50 tests

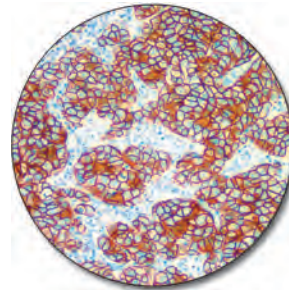
HercepTest is a semi-quantitative immunohistochemical assay for determination of HER2 protein (c-erbB-2 oncoprotein) overexpression in breast cancer tissues routinely processed for histological evaluation and formalin-fixed, paraffin-embedded cancer tissue from patients with metastatic gastric or gastroesophageal junction adenocarcinoma. HercepTest specifically demonstrates overexpression of HER2 protein. HercepTest is indicated as an aid in the assessment of breast and gastric cancer patients for whom Herceptin[®] (trastuzumab) treatment is being considered and for breast cancer patients for whom PERJETA[™] (pertuzumab) or KADCYLA[™] (ado-trastuzumab emtansine) treatment is being considered (see Herceptin[®], PERJETA[™], and KADCYLA[™] package inserts).

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 Autostainer Link instruments.

HercepTest[™], Herceptin[®], PERJETA[™], and KADCYLA[™] are trademarks owned by Genentech, Inc. and/or 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.

PD-L1 IHC 22C3 pharmDx for Autostainer Link 48

IVD SK006 For Autostainer Link 48 **NEW** 50 tests

PD-L1 IHC 22C3 pharmDx is a qualitative immunohistochemical assay using Monoclonal Mouse Anti-PD-L1, Clone 22C3 intended for use in the detection of PD-L1 protein in formalin-fixed, paraffin-embedded (FFPE) non-small cell lung cancer (NSCLC) tissue using EnVision FLEX visualization system on Autostainer Link 48. PD-L1 protein expression is determined by using Tumor Proportion Score (TPS), which is the percentage of viable tumor cells showing partial or complete membrane staining. The specimen should be considered PD-L1 positive if TPS ≥ 50% of the viable tumor cells exhibit membrane staining at any intensity.

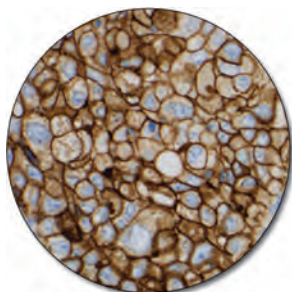
PD-L1 IHC 22C3 pharmDx is indicated as an aid in identifying NSCLC patients for treatment with KEYTRUDA® (pembrolizumab).

PD-L1 IHC 22C3 pharmDx kit

The kit includes reagents required for the immunohistochemical staining (except wash buffer), control slides representing different expression levels of PD-L1 protein, and detailed instructions. The kit has been tailored especially for use on Autostainer Link 48 instruments. The materials provided are sufficient for 50 tests (50 slides incubated with monoclonal mouse antibody to PD-L1 and 50 slides incubated with the corresponding negative control reagent, 100 slides in total).

Reference:

1. Garon EB, Rizvi NA, Hui R, Leighl N, Balmanoukian AS, Eder JP, et al. Pembrolizumab for the treatment of non-small cell lung cancer. *New Eng J Med* 2015;372:2018-28.



Non-small cell lung carcinoma (FFPE) with PD-L1 High Expression stained with PD-L1 IHC 22C3 pharmDx, Code SK006. PD-L1 expression ≥ 50%

PD-L1 IHC 28-8 pharmDx for Autostainer Link 48

IVD SK005 For Autostainer Link 48 **NEW** 50 tests

PD-L1 IHC 28-8 pharmDx is a qualitative immunohistochemical assay using Monoclonal Rabbit Anti-PD-L1, Clone 28-8 intended for use in the detection of PD-L1 protein in formalin-fixed paraffin-embedded (FFPE) non-squamous non-small cell lung cancer (NSCLC) and melanoma tissues using EnVision FLEX visualization system on Autostainer Link 48. PD-L1 protein expression is defined as the percentage of tumor cells exhibiting positive membrane staining at any intensity.

Non-squamous NSCLC

PD-L1 expression as detected by PD-L1 IHC 28-8 pharmDx in non-squamous NSCLC may be associated with enhanced survival from OPDIVO® (nivolumab).

Melanoma

Positive PD-L1 status as determined by PD-L1 IHC 28-8 pharmDx in melanoma is correlated with the magnitude of the treatment effect on progression-free survival from OPDIVO®.

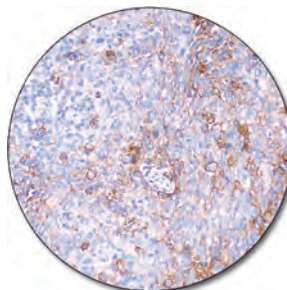
PD-L1 IHC 28-8 pharmDx kit

The kit includes reagents required for the immunohistochemical staining (except wash buffer), control slides representing different expression levels of PD-L1 protein, and detailed instructions. The kit has been tailored especially for use on Autostainer Link 48 instruments. The materials provided are sufficient for 50 tests (50 slides incubated with monoclonal rabbit antibody to PD-L1 and 50 slides incubated with the corresponding Negative Control Reagent, 100 slides in total).

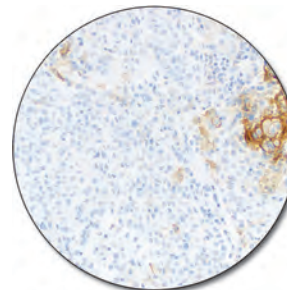
PD-L1 IHC 28-8 pharmDx is subject to an exclusive trademark license to Dako Denmark A/S. OPDIVO® is a trademark owned by Bristol-Myers Squibb.

Reference:

1. Phillips T, Simmons P, Inzunza HD, Cogswell J, Novotny J Jr, Taylor C, et al. Development of an automated PD-L1 immunohistochemistry (IHC) assay for non-small cell lung cancer. *Appl Immunohistochem Mol Morphol* 2015. Aug 25. [Epub ahead of print]



Non-squamous NSCLC (FFPE) stained with PD-L1 IHC 28-8 pharmDx, Code SK005. PD-L1 expression ≥ 10%.



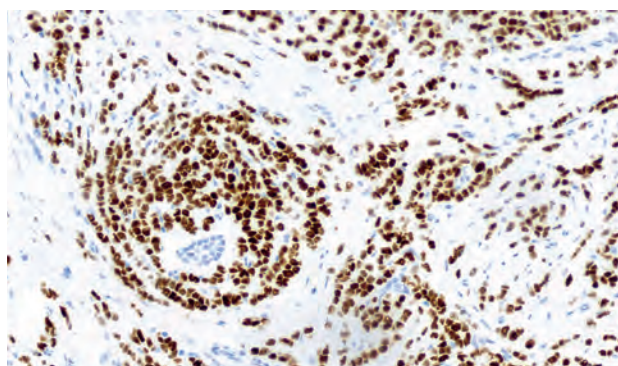
Melanoma (FFPE) stained with PD-L1 IHC 28-8 pharmDx, Code SK005. PD-L1 expression ≥ 1%.

Go to page 139 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.

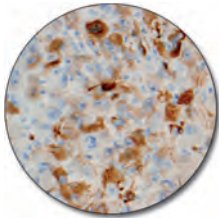
References:

1. Skaland I, Nordhus M, Gudlaugsson E, Klos J, Kjellevoid 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)

IVD IR700 Clone HHF35 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
BCL2 Oncoprotein

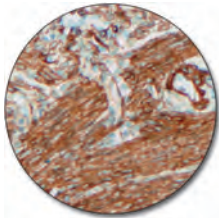
IVD IR614 Clone 124 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
Actin (Smooth Muscle)

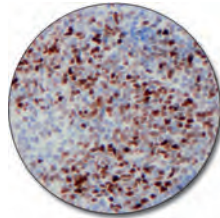
IVD IR611 Clone 1A4 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
BCL6 Protein

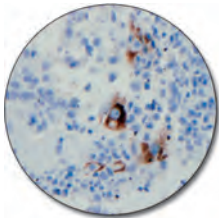
IVD IR625 Clone PG-B6p 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human
Alpha-1-Fetoprotein

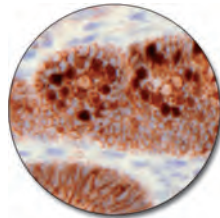
IVD IR500 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
Beta-Catenin

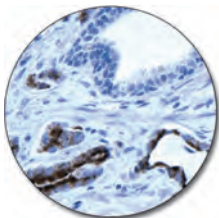
IVD IR702 Clone β -Catenin-1 60 tests, 12 mL



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

Monoclonal Rabbit Anti-Human
AMACR

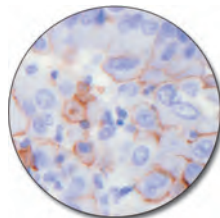
IVD IR060 Clone 13H4 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CA 125

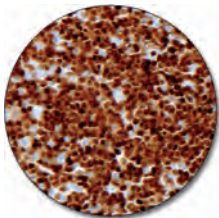
IVD IR701 Clone M11 60 tests, 12 mL



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

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

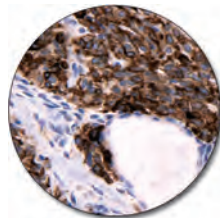
IVD IR650 Clone DAK-Pax5 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human
Calcitonin

IVD IR515 60 tests, 12 mL

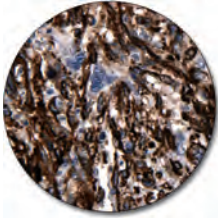


Thyroid medullary carcinoma (FFPE) stained with FLEX Anti-Calcitonin, Code IR515/IS515.

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

Monoclonal Mouse Anti-Human
Caldesmon

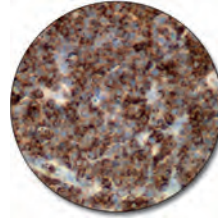
IVD IR054 Clone h-CD 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CD2

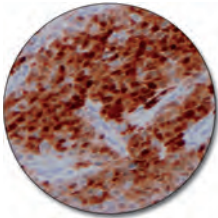
IVD IR651 Clone AB75 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
Calretinin

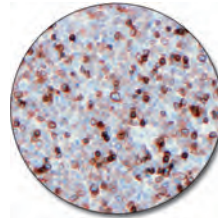
IVD IR627 Clone DAK-Calret 1 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human
CD3

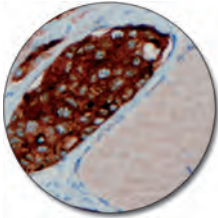
IVD IR503 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
Carcinoembryonic Antigen (CEA)

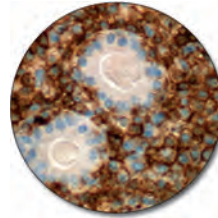
IVD IR622 Clone II-7 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CD4

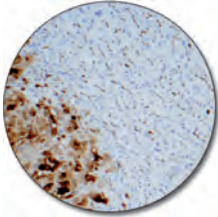
IVD IR649 Clone 4B12 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human
Carcinoembryonic Antigen (CEA)

IVD IR526 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CD5

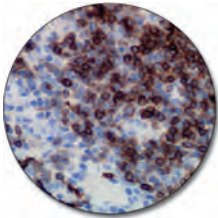
IVD IR082 Clone 4C7 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CD1a

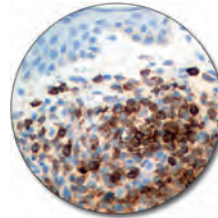
IVD IR069 Clone 010 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
CD7

IVD IR643 Clone CBC.37 60 tests, 12 mL

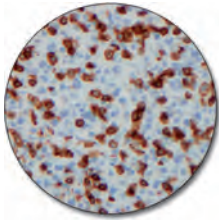


Peripheral T-cell lymphoma (FFPE) stained with FLEX Anti-CD7, Code IR643/IS643.

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

Monoclonal Mouse Anti-Human **CD8**

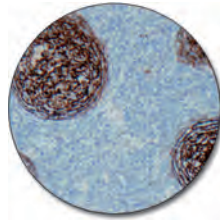
IVD IR623 Clone C8/144B 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD21**

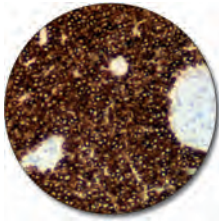
IVD IR608 Clone 1F8 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD10**

IVD IR648 Clone 56C6 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD23**

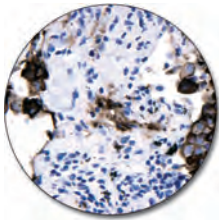
IVD IR781 Clone DAK-CD23 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD15**

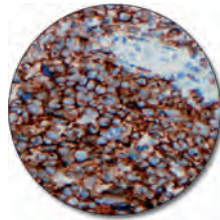
IVD IR062 Clone Carb-3 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD30**

IVD 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 **CD19**

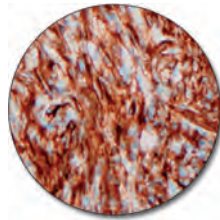
IVD IR656 Clone LE-CD19 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD31, Endothelial Cell**

IVD IR610 Clone JC70A 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD20cy**

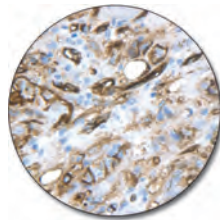
IVD IR604 Clone L26 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **CD34 Class II**

IVD IR632 Clone QBEnd 10 60 tests, 12 mL



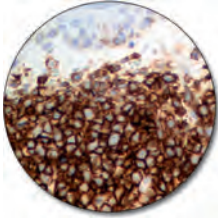
Angiosarcoma (FFPE) stained with FLEX Anti-CD34 Class II, Code IR632/IS632.

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

Monoclonal Mouse Anti-Human
CD43

IVD IR636 Clone DF-T1

60 tests, 12 mL

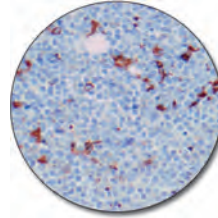


Peripheral B-cell lymphoma (FFPE) stained with FLEX Anti-CD43, Code IR636/IS636.

Monoclonal Mouse Anti-Human
CD68

IVD IR613 Clone PG-M1

60 tests, 12 mL

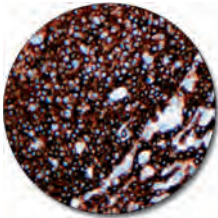


Acute myeloid leukemia (FAB Type M1) (FFPE) stained with FLEX Anti-CD68, Code IR613/IS613.

Monoclonal Mouse Anti-Human
CD45, Leucocyte Common Antigen

IVD IR751 Clones 2B11 + PD7/26

60 tests, 12 mL

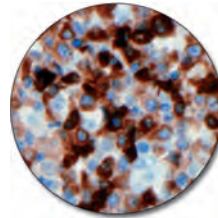


B-cell chronic lymphatic leukemia (FFPE) stained with FLEX Anti-CD45, Code IR751/IS751.

Monoclonal Mouse Anti-Human
CD79 α

IVD IR621 Clone JCB117

60 tests, 12 mL

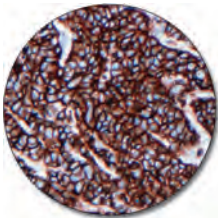


Plasmacytoma (FFPE) stained with FLEX Anti-CD79 α , Code IR621/IS621.

Monoclonal Mouse Anti-Human
CD56

IVD IR628 Clone 123C3

60 tests, 12 mL

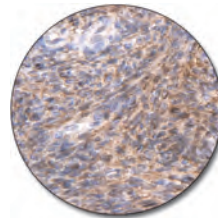


Small cell carcinoma (FFPE) stained with FLEX Anti-CD56, Code IR628/IS628.

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

IVD IR057 Clone 12E7

60 tests, 12 mL

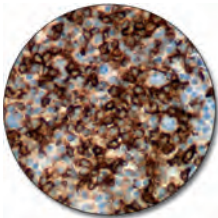


Granulosa cell tumor (FFPE) stained with FLEX Anti-CD99, Code IR057/IS057.

Monoclonal Mouse Anti-Human
CD57

IVD IR647 Clone TB01

60 tests, 12 mL

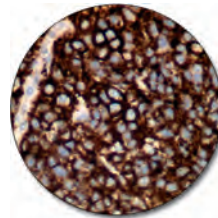


Hodgkin lymphoma (LP subtype) (FFPE) stained with FLEX Anti-CD57, Code IR647/IS647.

Monoclonal Mouse Anti-Human
CD138

IVD IR642 Clone MI15

60 tests, 12 mL

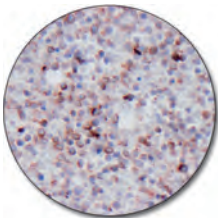


Myeloma (FFPE) stained with FLEX Anti-CD138, Code IR642/IS642.

Monoclonal Mouse Anti-Human
CD68

IVD IR609 Clone KP1

60 tests, 12 mL

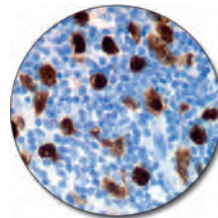


Acute myeloid leukemia (FAB Type M1) (FFPE) stained with FLEX Anti-CD68, Code IR609/IS609.

Monoclonal Mouse Anti-Human
CD246, ALK Protein

IVD IR641 Clone ALK1

60 tests, 12 mL

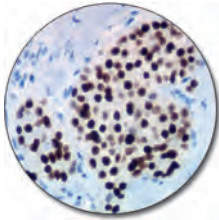


Anaplastic large cell lymphoma (FFPE) stained with FLEX Anti-CD246, ALK Protein, Code IR641/IS641.

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

Monoclonal Mouse Anti-Human **CDX2**

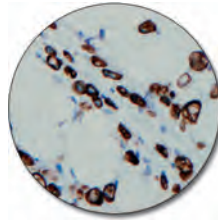
IVD IR080 Clone DAK-CDX2 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **Cytokeratin 7**

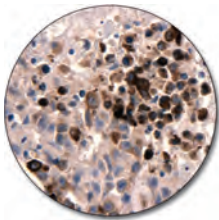
IVD IR619 Clone OV-TL 12/30 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human **Chorionic Gonadotropin (hCG)**

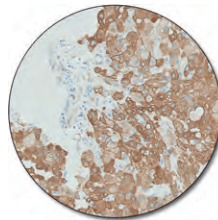
IVD IR508 60 tests, 12 mL



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

Monoclonal Rabbit Anti-Human **Cytokeratin 8/18**

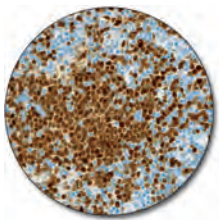
IVD IR094 Clone EP17/EP30 60 tests, 12 mL



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

Monoclonal Rabbit Anti-Human **Cyclin D1**

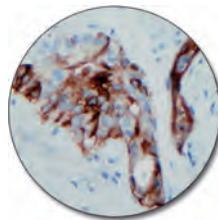
IVD IR083 Clone EP12 60 tests, 12 mL



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

Monoclonal Mouse Anti- **Cytokeratin 17**

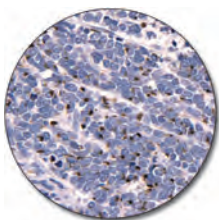
IVD IR620 Clone E3 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **Cytokeratin**

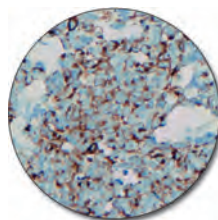
IVD IR053 Clone AE1/AE3 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **Cytokeratin 18**

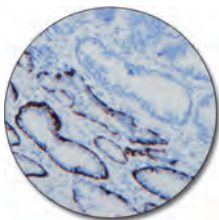
IVD IR618 Clone DC 10 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **Cytokeratin 5/6**

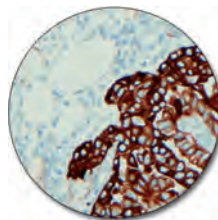
IVD IR780 Clone D5/16 B4 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human **Cytokeratin 19**

IVD IR615 Clone RCK108 60 tests, 12 mL



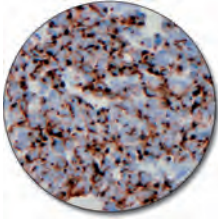
Thyroid papillary carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 19, Code IR615/IS615.

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

Monoclonal Mouse Anti-Human
Cytokeratin 20

IVD IR777 Clone K_s20.8

60 tests, 12 mL

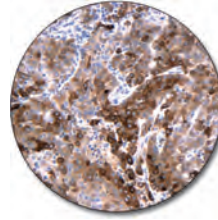


Merkel cell carcinoma (FFPE) stained with FLEX Anti-Cytokeratin 20, Code IR777/IS777.

Monoclonal Mouse Anti-Human
Epithelial Membrane Antigen (EMA)

IVD IR629 Clone E29

60 tests, 12 mL

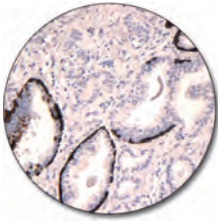


Mesothelioma (FFPE) stained with FLEX Anti-EMA, Code IR629/IS629.

Monoclonal Mouse Anti-Human
Cytokeratin, High Molecular Weight

IVD IR051 Clone 34βE12

60 tests, 12 mL

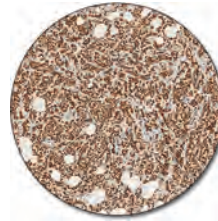


Prostate adenocarcinoma (FFPE) stained with FLEX Anti-Cytokeratin, High Molecular Weight, Code IR051/IS051.

Monoclonal Mouse Anti-Human
ERCC1

IVD IR091 Clone 4F9

60 tests, 12 mL

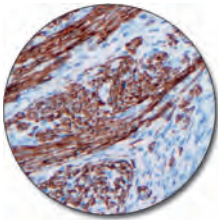


Breast carcinoma (FFPE) stained with FLEX Anti-ERCC1, Code IR091.

Monoclonal Mouse Anti-Human
Desmin

IVD IR606 Clone D33

60 tests, 12 mL

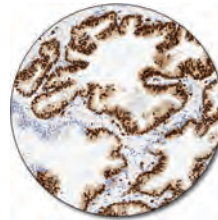


Uterine leiomyoma (FFPE) stained with FLEX Anti-Desmin, Code IR606/IS606.

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

IVD IR659 Clone EP111

60 tests, 12 mL

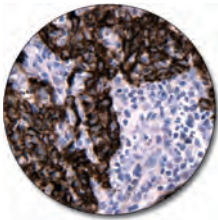


Prostate adenocarcinoma (FFPE) stained with FLEX Anti-ERG, Code IR659.

Monoclonal Mouse Anti-Human
E-Cadherin

IVD IR059 Clone NCH-38

60 tests, 12 mL

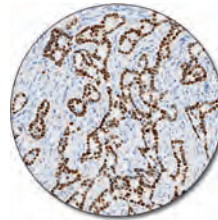


Breast ductal carcinoma (FFPE) stained with FLEX Anti-E-Cadherin, Code IR059/IS059.

Monoclonal Rabbit Anti-Human
Estrogen Receptor α

IVD IR084 Clone EP1

60 tests, 12 mL

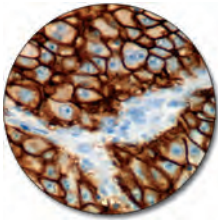


Breast tissue (FFPE) stained with FLEX Anti-Estrogen Receptor α, Clone EP1.

Monoclonal Mouse Anti-Human
Epithelial Antigen

IVD IR637 Clone Ber-EP4

60 tests, 12 mL

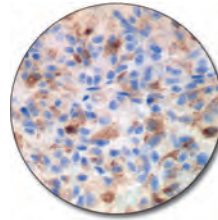


Lung adenocarcinoma (FFPE) stained with FLEX Anti-Epithelial Antigen, Code IR637/IS637.

Polyclonal Rabbit Anti-Human
Gastrin

IVD IR519

60 tests, 12 mL



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

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

Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein

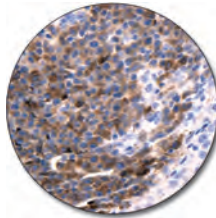
IVD IR524 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human IgG

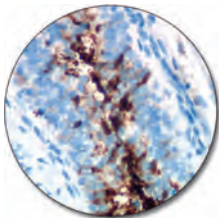
IVD IR512 60 tests, 12 mL



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

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

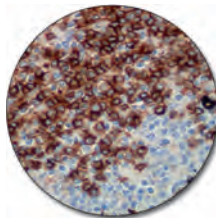
IVD IR077 Clone 23A3 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human IgM

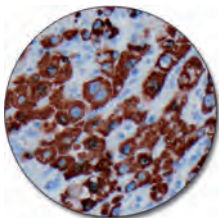
IVD IR513 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Hepatocyte

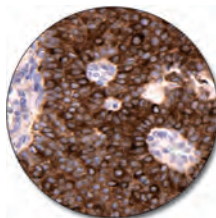
IVD IR624 Clone OCH1E5 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Inhibin α

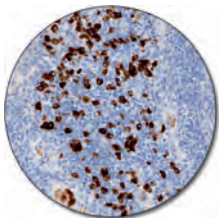
IVD IR058 Clone R1 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human IgA

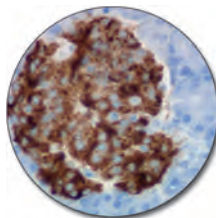
IVD IR510 60 tests, 12 mL



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

Polyclonal Guinea Pig Anti-Insulin

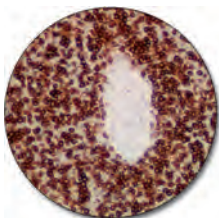
IVD IR002 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human IgD

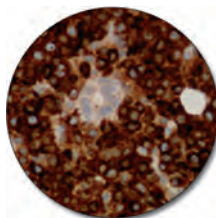
IVD IR517 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human Kappa Light Chains

IVD IR506 60 tests, 12 mL



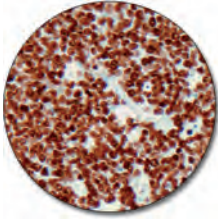
Plasmacytoma (FFPE) stained with FLEX Anti-Kappa Light Chains, Code IR506/IS506.

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

Monoclonal Mouse Anti-Human
Ki-67 Antigen

IVD IR626 Clone MIB-1

60 tests, 12 mL

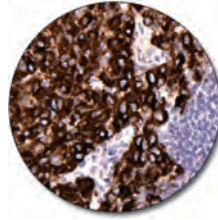


Burkitt lymphoma (FFPE) stained with FLEX Anti-Ki-67 Antigen, Code IR626/IS626.

Monoclonal Mouse Anti-Human
Melanosome

IVD IR052 Clone HMB-45

60 tests, 12 mL

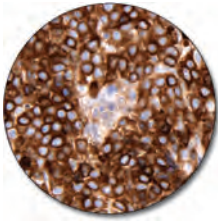


Metastatic melanoma (FFPE) stained with FLEX Anti-Melanosome, Code IR052/IS052.

Polyclonal Rabbit Anti-Human
Lambda Light Chains

IVD IR507

60 tests, 12 mL

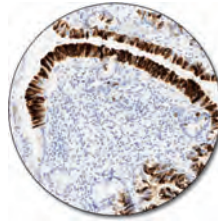


Plasmacytoma (FFPE) stained with FLEX Anti-Lambda Light Chains, Code IR507/IS507.

Monoclonal Mouse Anti-Human
MUC2

IVD IR658 Clone CCP58

60 tests, 12 mL

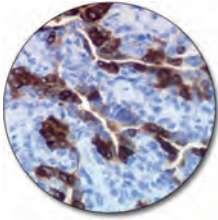


Barrett's esophagus (FFPE) stained with FLEX Anti-MUC2, Code IR658.

Monoclonal Mouse Anti-Human
Mammaglobin

IVD IR074 Clone 304-1A5

60 tests, 12 mL

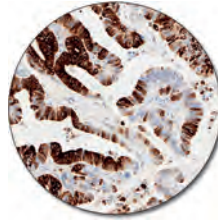


Breast hyperplasia (FFPE) stained with FLEX Anti-Mammaglobin, Code IR074/IS074.

Monoclonal Mouse Anti-Human
MUC5AC

IVD IR661 Clone CLH2

60 tests, 12 mL

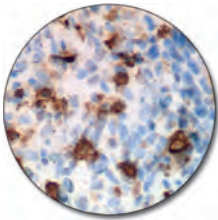


Pancreas adenocarcinoma (FFPE) stained with FLEX Anti-MUC5AC, Clone CLH2, Code IR661.

Monoclonal Mouse Anti-Human
Mast Cell Tryptase

IVD IR640 Clone AA1

60 tests, 12 mL

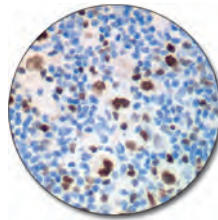


Mastocytosis in the subcutis (FFPE) stained with FLEX Anti-Mast Cell Tryptase, Code IR640/IS640.

Monoclonal Mouse Anti-Human
MUM1 Protein

IVD IR644 Clone MUM1p

60 tests, 12 mL

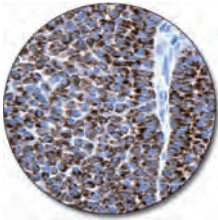


Classic Hodgkin's lymphoma, (FFPE) stained with FLEX Anti-MUM1 Protein, Code IR644/IS644.

Monoclonal Mouse Anti-Human
Melan-A

IVD IR633 Clone A103

60 tests, 12 mL



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

Monoclonal Mouse Anti-Human
MutL Protein Homolog 1

IVD IR079 Clone ES05

60 tests, 12 mL



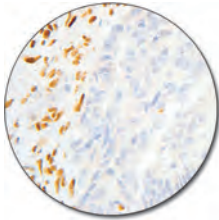
Colon adenocarcinoma (FFPE) stained with FLEX Anti-MutL Protein Homolog 1, Code IR079/IS079.

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

Monoclonal Mouse Anti-Human **MutS Protein Homolog 2**

IVD IR085 Clone FE11

60 tests, 12 mL

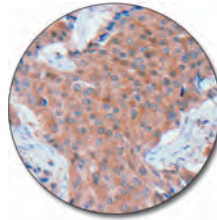


Colon adenocarcinoma (FFPE) with loss of MSH2 protein stained with FLEX Anti-MSH2, Code IR085.

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

IVD IR612 Clone BBS/NC/VI-H14

60 tests, 12 mL

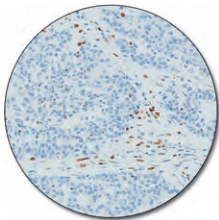


Carcinoid tumor (FFPE) stained with FLEX Anti-NSE, Code IR612/IS612.

Monoclonal Rabbit Anti-Human **MutS Protein Homolog 6**

IVD IR086 Clone EP49

60 tests, 12 mL

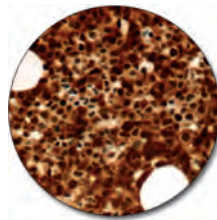


Colon adenocarcinoma (FFPE) with loss of MSH6 protein stained with FLEX Anti-MSH6, Code IR086.

Monoclonal Mouse Anti-Human **Nucleophosmin**

IVD IR652 Clone 376

60 tests, 12 mL

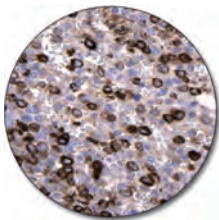


Acute myeloid leukemia (FFPE) stained with FLEX Anti-Nucleophosmin, Code IR652.

Polyclonal Rabbit Anti-Human **Myeloperoxidase**

IVD IR511

60 tests, 12 mL

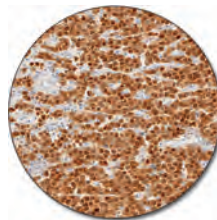


Acute myeloid leukemia (FFPE) stained with FLEX Anti-Myeloperoxidase, Code IR511/IS511.

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

IVD IR092 Clone N1NK

60 tests, 12 mL

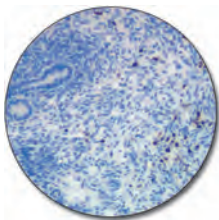


Seminoma (FFPE) stained with FLEX Anti-OCT3/4, Code IR092.

Monoclonal Mouse Anti-Human **Myogenin**

IVD IR067 Clone F5D

60 tests, 12 mL

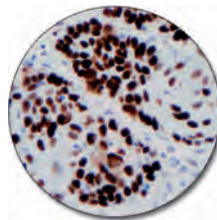


Wilms' tumor (FFPE) stained with FLEX Anti-Myogenin, Code IR067/IS067.

Monoclonal Mouse Anti-Human **p53 Protein**

IVD IR616 Clone DO-7

60 tests, 12 mL

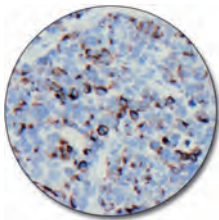


Transitional cell carcinoma (FFPE) stained with FLEX Anti-p53 Protein, Code IR616/IS616.

Monoclonal Mouse Anti-Human **Neurofilament Protein**

IVD IR607 Clone 2F11

60 tests, 12 mL

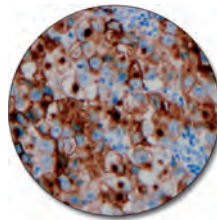


Merkel cell carcinoma (FFPE) stained with FLEX Anti-Neurofilament Protein, Code IR607/IS607.

Monoclonal Mouse Anti-Human **Placental Alkaline Phosphatase**

IVD IR779 Clone 8A9

60 tests, 12 mL



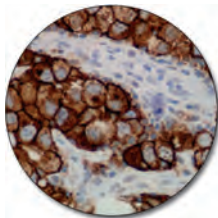
Seminoma (FFPE) stained with FLEX Anti-Placental Alkaline Phosphatase, Code IR779/IS779.

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

Monoclonal Mouse Anti-Human
Podoplanin

IVD IR072 Clone D2-40

60 tests, 12 mL

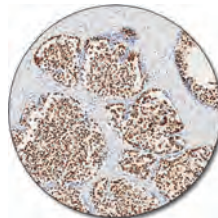


Mesothelioma (FFPE) stained with FLEX Anti-Podoplanin, Code IR072/IS072.

Monoclonal Mouse Anti-Human
Prostein

IVD IR088 Clone 10E3

60 tests, 12 mL

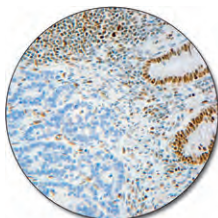


Prostate adenocarcinoma (FFPE) stained with FLEX Anti-Prostein, Code IR088.

Monoclonal Rabbit Anti-Human
Postmeiotic Segregation Increased 2

IVD IR087 Clone EP51

60 tests, 12 mL

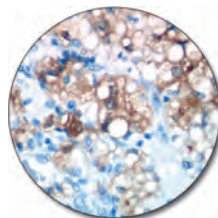


Colon adenocarcinoma (FFPE) with loss of PMS2 protein stained with FLEX Anti-PMS2, Code IR087.

Monoclonal Mouse Anti-Human
Renal Cell Carcinoma Marker

IVD IR075 Clone SPM314

60 tests, 12 mL

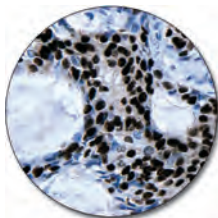


Renal cell carcinoma (FFPE) stained with FLEX Anti-Renal Cell Carcinoma Marker, Code IR075/IS075.

Monoclonal Mouse Anti-Human
Progesterone Receptor

IVD IR068 Clone PgR 636

60 tests, 12 mL

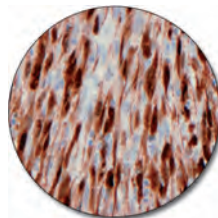


Breast ductal carcinoma (FFPE) stained with FLEX Anti-Progesterone Receptor, Code IR068.

Polyclonal Rabbit Anti-
S100

IVD IR504

60 tests, 12 mL

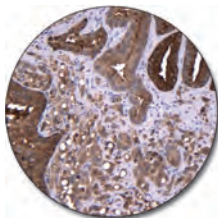


Malignant melanoma (FFPE) stained with FLEX Anti-S100, Code IR504/IS504.

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

IVD IR514

60 tests, 12 mL

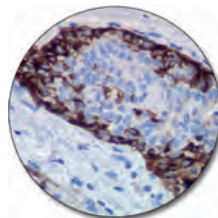


Prostatic adenocarcinoma (FFPE) stained with FLEX Anti-PSA, Code IR514/IS514.

Monoclonal Mouse Anti-Human
Smooth Muscle Myosin Heavy Chain

IVD IR066 Clone SMMS-1

60 tests, 12 mL

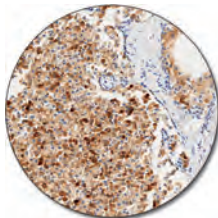


Breast hyperplasia (FFPE) stained with FLEX Anti-Myosin Heavy Chain (Smooth Muscle), Code IR066/IS066.

Monoclonal Mouse Anti-Human
Prostate-Specific Membrane Antigen

IVD IR089 Clone 3E6

60 tests, 12 mL

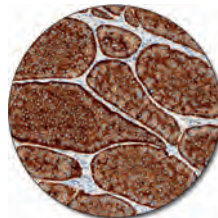


Prostate adenocarcinoma (FFPE) stained with FLEX Anti-PSMA, Code IR089.

Monoclonal Mouse Anti-Human
Synaptophysin

IVD IR660 Clone DAK-SYNAP

60 tests, 12 mL

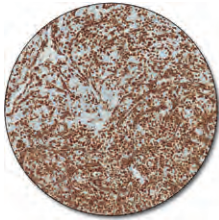


Small intestine carcinoid (FFPE) stained with FLEX Anti-Synaptophysin, Code IR660.

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

Monoclonal Rabbit Anti-Human Terminal Deoxynucleotidyl Transferase (TdT)

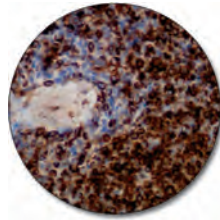
IVD IR093 Clone EP266 60 tests, 12 mL



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

Monoclonal Mouse Anti-Vimentin

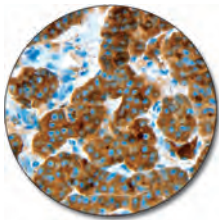
IVD IR630 Clone V9 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human Thyroglobulin

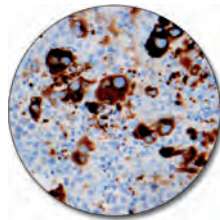
IVD IR509 60 tests, 12 mL



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

Polyclonal Rabbit Anti-Human Von Willebrand Factor

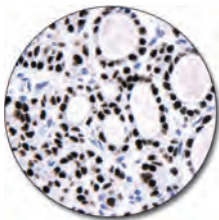
IVD IR527 60 tests, 12 mL



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

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

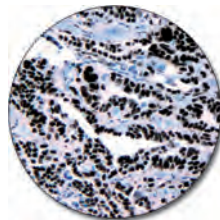
IVD IR056 Clone 8G7G3/1 60 tests, 12 mL



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

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

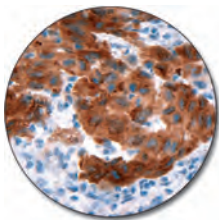
IVD IR055 Clone 6F-H2 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human Tyrosinase

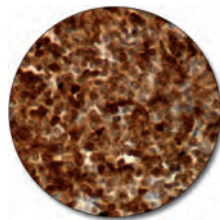
IVD IR061 Clone T311 60 tests, 12 mL



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

Monoclonal Mouse Anti-Human ZAP-70

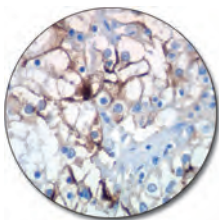
IVD IR653 Clone 2F3.2 60 tests, 12 mL



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

Monoclonal Mouse Anti- Villin

IVD IR076 Clone 1D2 C3 60 tests, 12 mL



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

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

Negative Control for IR-Series Mouse Primary Antibodies

IVD 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

IVD 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 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, Kjellevoid 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)

IVD 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)

IVD 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)

IVD 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

IVD 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)

IVD 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)

IVD 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)

IVD 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

IVD 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

IVD 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

IVD 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.

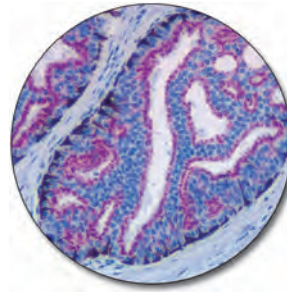
Doublestaining System (EnVision DuoFLEX) (Autostainer Link)

EnVision DuoFLEX Doublestain System (Link)

IVD 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 μ L or 300 μ L 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

IVD	K3461	Ready-to-use	150 tests, 15 mL
IVD	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

IVD	SL002		3.8 L
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This reagent is suitable for cleaning the Dako Autostainer sink and reservoir after performing histological stains.

DAB+, Liquid

IVD	K3468		10 x 11 mL [△]
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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

IVD	S1967	DAB chromogen removal system	50 tests, 250 mL
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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

IVD	S3301		500 mL
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Developed for use with the Dako Autostainer.

IHC Microscope Slides, FLEX

IVD	K8020	Coated glass slides	5 x 100 slides
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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 and Alkaline Phosphatase Blocking Reagent (Dual Endogenous Enzyme-Blocking Reagent)

IVD	S2003		10 x 11 mL [△]
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Suppresses endogenous alkaline phosphatase and peroxidase in cell preparations, frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

Proteinase K

IVD	S3020	Ready-to-use	10 x 11 mL [△]
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Proteinase K is intended for proteolytic epitope retrieval in formalin-fixed, paraffin-embedded tissues prior to immunohistochemical procedures.

Proteolytic Enzyme

IVD	S3007	Ready-to-use	10 x 11 mL [△]
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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

IVD	S3006	Concentrate	1 L, 10x concentrated
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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

IVD 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

IVD 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

IVD 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

IVD 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 metastatic gastric or gastroesophageal junction adenocarcinoma. HercepTest specifically demonstrates overexpression of HER2 protein. HercepTest is indicated as an aid in the assessment of breast and gastric cancer patients for whom Herceptin® (trastuzumab) treatment is being considered and for breast cancer patients for whom PERJETA™ (pertuzumab) or KADCYLA™ (ado-trastuzumab emtansine) treatment is being considered (see Herceptin®, PERJETA™, and KADCYLA™ package inserts).

K5207 has been tailored especially for use on Dako Autostainer.

HercepTest™, Herceptin®, PERJETA™, and KADCYLA™ are trademarks owned by Genentech, Inc. and/or F. Hoffmann-La Roche Ltd.; HercepTest™ is subject to an exclusive trademark license to Dako Denmark A/S.

Go to page 139 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)	IVD IS700 Clone HHF35	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD2	IVD IS651 Clone AB75	30 tests, 6 mL
Monoclonal Mouse Anti-Human Actin (Smooth Muscle)	IVD IS611 Clone 1A4	30 tests, 6 mL	Polyclonal Rabbit Anti-Human CD3	IVD IS503	30 tests, 6 mL
Polyclonal Rabbit Anti-Human Alpha-1-Fetoprotein	IVD IS500	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD4	IVD IS649 Clone 4B12	30 tests, 6 mL
Monoclonal Rabbit Anti-Human AMACR	IVD IS060 Clone 13H4	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD5	IVD IS082 Clone 4C7	30 tests, 6 mL
Monoclonal Mouse Anti-Human B-Cell-Specific Activator Protein	IVD IS650 Clone DAK-Pax5	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD7	IVD IS643 Clone CBC.37	30 tests, 6 mL
Monoclonal Mouse Anti-Human BCL2 Oncoprotein	IVD IS614 Clone 124	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD8	IVD IS623 Clone C8/144B	30 tests, 6 mL
Monoclonal Mouse Anti-Human BCL6 Protein	IVD IS625 Clone PG-B6p	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD10	IVD IS648 Clone 56C6	30 tests, 6 mL
Monoclonal Mouse Anti-Human Beta-Catenin	IVD IS702 Clone β -Catenin-1	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD15	IVD IS062 Clone Carb-3	30 tests, 6 mL
Monoclonal Mouse Anti-Human CA 125	IVD IS701 Clone M11	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD19	IVD IS656 Clone LE-CD19	30 tests, 6 mL
Polyclonal Rabbit Anti-Human Calcitonin	IVD IS515	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD20cy	IVD IS604 Clone L26	30 tests, 6 mL
Monoclonal Mouse Anti-Human Caldesmon	IVD IS054 Clone h-CD	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD21	IVD IS608 Clone 1F8	30 tests, 6 mL
Monoclonal Mouse Anti-Human Calretinin	IVD IS627 Clone DAK-Calret 1	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD23	IVD IS781 Clone DAK-CD23	30 tests, 6 mL
Monoclonal Mouse Anti-Human Carcinoembryonic Antigen (CEA)	IVD IS622 Clone II-7	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD30	IVD IS602 Clone Ber-H2	30 tests, 6 mL
Polyclonal Rabbit Anti-Human Carcinoembryonic Antigen (CEA)	IVD IS526	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD31, Endothelial Cell	IVD IS610 Clone JC70A	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD1a	IVD IS069 Clone 010	30 tests, 6 mL	Monoclonal Mouse Anti-Human CD34 Class II	IVD IS632 Clone QBEnd 10	30 tests, 6 mL

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

Monoclonal Mouse Anti-Human CD43	IVD IS636 Clone DF-T1	30 tests, 6 mL	Monoclonal Mouse Anti-Human Cytokeratin 18	IVD IS618 Clone DC 10	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen	IVD IS751 Clones 2B11 + PD7/26	30 tests, 6 mL	Monoclonal Mouse Anti-Human Cytokeratin 19	IVD IS615 Clone RCK108	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD56	IVD IS628 Clone 123C3	30 tests, 6 mL	Monoclonal Mouse Anti-Human Cytokeratin 20	IVD IS777 Clone K _s 20.8	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD57	IVD IS647 Clone TB01	30 tests, 6 mL	Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight	IVD IS051 Clone 34&E12	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD68	IVD IS609 Clone KP1	30 tests, 6 mL	Monoclonal Mouse Anti-Human Desmin	IVD IS606 Clone D33	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD68	IVD IS613 Clone PG-M1	30 tests, 6 mL	Monoclonal Mouse Anti-Human E-Cadherin	IVD IS059 Clone NCH-38	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD79α	IVD IS621 Clone JCB117	30 tests, 6 mL	Monoclonal Mouse Anti-Human Epithelial Antigen	IVD IS637 Clone Ber-EP4	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD99, MIC2 Gene Products, Ewing's Sarcoma Marker	IVD IS057 Clone 12E7	30 tests, 6 mL	Monoclonal Mouse Anti-Human Epithelial Membrane Antigen (EMA)	IVD IS629 Clone E29	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD138	IVD IS642 Clone MI15	30 tests, 6 mL	Polyclonal Rabbit Anti-Human Gastrin	IVD IS519	30 tests, 6 mL
Monoclonal Mouse Anti-Human CD246, ALK Protein	IVD IS641 Clone ALK1	30 tests, 6 mL	Polyclonal Rabbit Anti- Glial Fibrillary Acidic Protein	IVD IS524	30 tests, 6 mL
Monoclonal Mouse Anti-Human CDX2	IVD IS080 Clone DAK-CDX2	30 tests, 6 mL	Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15	IVD IS077 Clone 23A3	30 tests, 6 mL
Polyclonal Rabbit Anti-Human Chorionic Gonadotropin (hCG)	IVD IS508	30 tests, 6 mL	Monoclonal Mouse Anti-Human Hepatocyte	IVD IS624 Clone OCH1E5	30 tests, 6 mL
Monoclonal Rabbit Anti-Human Cyclin D1	IVD IS083 Clone EP12	30 tests, 6 mL	Polyclonal Rabbit Anti-Human IgA	IVD IS510	30 tests, 6 mL
Monoclonal Mouse Anti-Human Cytokeratin	IVD IS053 Clone AE1/AE3	30 tests, 6 mL	Polyclonal Rabbit Anti-Human IgD	IVD IS517	30 tests, 6 mL
Monoclonal Mouse Anti-Human Cytokeratin 5/6	IVD IS780 Clone D5/16 B4	30 tests, 6 mL	Polyclonal Rabbit Anti-Human IgG	IVD IS512	30 tests, 6 mL
Monoclonal Mouse Anti-Human Cytokeratin 7	IVD IS619 Clone OV-TL 12/30	30 tests, 6 mL	Polyclonal Rabbit Anti-Human IgM	IVD IS513	30 tests, 6 mL
Monoclonal Mouse Anti- Cytokeratin 17	IVD IS620 Clone E3	30 tests, 6 mL	Monoclonal Mouse Anti-Human Inhibin α	IVD IS058 Clone R1	30 tests, 6 mL

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

Polyclonal Guinea Pig Anti- Insulin	IVD IS002	30 tests, 6 mL	Monoclonal Mouse Anti-Human p53 Protein	IVD IS616 Clone D0-7	30 tests, 6 mL
Polyclonal Rabbit Anti-Human Kappa Light Chains	IVD IS506	30 tests, 6 mL	Monoclonal Mouse Anti-Human Placental Alkaline Phosphatase	IVD IS779 Clone 8A9	30 tests, 6 mL
Monoclonal Mouse Anti-Human Ki-67 Antigen	IVD IS626 Clone MIB-1	30 tests, 6 mL	Monoclonal Mouse Anti-Human Podoplanin	IVD IS072 Clone D2-40	30 tests, 6 mL
Polyclonal Rabbit Anti-Human Lambda Light Chains	IVD IS507	30 tests, 6 mL	Polyclonal Rabbit Anti-Human Prostate-Specific Antigen (PSA)	IVD IS514	30 tests, 6 mL
Monoclonal Mouse Anti-Human Mammaglobin	IVD IS074 Clone 304-1A5	30 tests, 6 mL	Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker	IVD IS075 Clone SPM314	30 tests, 6 mL
Monoclonal Mouse Anti-Human Mast Cell Tryptase	IVD IS640 Clone AA1	30 tests, 6 mL	Polyclonal Rabbit Anti- S100	IVD IS504	30 tests, 6 mL
Monoclonal Mouse Anti-Human Melan-A	IVD IS633 Clone A103	30 tests, 6 mL	Monoclonal Mouse Anti-Human Smooth Muscle Myosin Heavy Chain	IVD IS066 Clone SMMS-1	30 tests, 6 mL
Monoclonal Mouse Anti-Human Melanosome	IVD IS052 Clone HMB-45	30 tests, 6 mL	Polyclonal Rabbit Anti-Human Thyroglobulin	IVD IS509	30 tests, 6 mL
Monoclonal Mouse Anti-Human MUM1 Protein	IVD IS644 Clone MUM1p	30 tests, 6 mL	Monoclonal Mouse Anti- Thyroid Transcription Factor (TTF-1)	IVD IS056 Clone 8G7G3/1	30 tests, 6 mL
Monoclonal Mouse Anti-Human MutL Protein Homolog 1	IVD IS079 Clone ES05	30 tests, 6 mL	Monoclonal Mouse Anti-Human Tyrosinase	IVD IS061 Clone T311	30 tests, 6 mL
Polyclonal Rabbit Anti-Human Myeloperoxidase	IVD IS511	30 tests, 6 mL	Monoclonal Mouse Anti- Villin	IVD IS076 Clone 1D2 C3	30 tests, 6 mL
Monoclonal Mouse Anti- Myogenin	IVD IS067 Clone F5D	30 tests, 6 mL	Monoclonal Mouse Anti- Vimentin	IVD IS630 Clone V9	30 tests, 6 mL
Monoclonal Mouse Anti-Human Neurofilament Protein	IVD IS607 Clone 2F11	30 tests, 6 mL	Polyclonal Rabbit Anti-Human Von Willebrand Factor	IVD IS527	30 tests, 6 mL
Monoclonal Mouse Anti-Human Neuron-Specific Enolase (NSE)	IVD IS612 Clone BBS/NC/VI-H14	30 tests, 6 mL	Monoclonal Mouse Anti-Human Wilms' Tumor 1 (WT1) Protein	IVD IS055 Clone 6F-H2	30 tests, 6 mL

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

Negative Control for IS-Series Mouse Primary Antibodies

IVD 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

IVD 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)

IVD 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)

IVD 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)

IVD 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

IVD 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)

IVD 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)

IVD 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)

IVD 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

IVD 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

IVD 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

IVD 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

IVD K4069	HRP. Rabbit/Mouse	55 tests
IVD 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.

EnVision+ Dual Link Kit

IVD K4065	HRP. Rabbit/Mouse (DAB+)	150 tests
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This ready-to-use, peroxidase-based EnVision+ Dual Link Kit is compatible with suitably diluted rabbit and mouse primary antibodies. In addition to the ready-to-use EnVision+ Dual Link reagent, the kit includes a blocking reagent for endogenous peroxidase and a high-sensitivity diaminobenzidine (DAB+) chromogenic substrate system.

EnVision+ Dual Link, Single Reagent

IVD K4061	HRP. Rabbit/Mouse	10 x 11 mL
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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)

IVD K5361		150 tests
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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)

IVD K5355		50 tests/500 tests
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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

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

IVD K0675	10 x 11 mL Link + 10 x 11 mL Streptavidin/HRP
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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 EnVisionFLEX and EnVisionFLEX+ 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% formalin 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 our 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.

Adjunctive Diagnostic Information

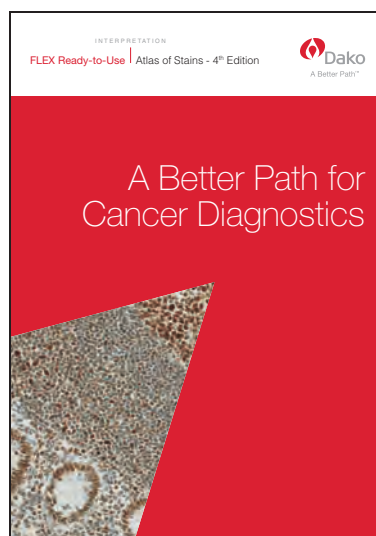
IHC class I devices provide pathologists with adjunctive diagnostic information that may be incorporated into the pathologist's report, but that is not ordinarily reported to the clinician as an independent finding. Results aid in the classification of neoplasms. Differential classification is aided by the results from a panel of antibodies. The clinical interpretation of any staining or its absence should be complemented by morphological studies using proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist. Primary antibodies are intended to be used after the primary diagnosis of tumor has been made by conventional histopathology using non-immunologic histochemical stains, such as hematoxylin and eosin.

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.

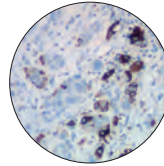
Dako does not claim or make warranties that the information provided in the Target-Specific FLEX Ready-to-Use tables are valid everywhere, since there are differences in the acceptance of the relevance of various markers between countries and pathologists and in the standard operating procedures used.

FLEX RTU Antibodies | Breast Tissue

Page	Anti-	Clone
74	BCL2 Oncoprotein	124
76	Caldesmon	h-CD
81	CD31, Endothelial Cell	JC70A
82	CD34 Class II	QBEnd 10
88	Cytokeratin 8/18	EP17/EP30
90	E-Cadherin	NCH-38
92	Epithelial Membrane Antigen	E29
93	Estrogen Receptor α	EP1
95	Gross Cystic Disease Fluid Protein-15	23A3
98	Ki-67 Antigen	MIB-1
100	Mammaglobin	304-1A5
73	Muscle Actin	HHF35
104	Myosin Heavy Chain, Smooth Muscle	SMMS-1
106	p53 Protein	DO-7
108	Progesterone Receptor	PgR 636
110	S100	Polyclonal
73	Smooth Muscle Actin	1A4



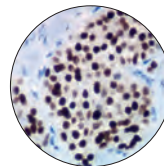
Breast ductal carcinoma stained with Anti-Gross Cystic Disease Fluid Protein-15, Code IR077/IS077.



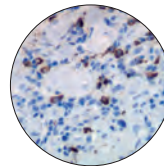
Breast ductal carcinoma stained with Anti-Mammaglobin, Code IR074/IS074.

FLEX RTU Antibodies | Endocrine System

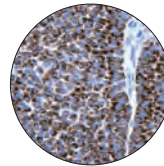
Page	Anti-	Clone
General neuroendocrine markers		
83	CD56	123C3
104	Neuron-Specific Enolase	BBS/NC/VI-H14
110	S100	Polyclonal
110	Synaptophysin	DAK-SYNAP
Alimentary tract and pancreas		
86	CDX2	DAK-CDX2
94	Gastrin	Polyclonal
97	Insulin	Polyclonal
Gonades		
86	Chorionic Gonadotropin	Polyclonal
97	Inhibin α	R1
100	Melan-A	A103
Pituitary glands		
86	Chorionic Gonadotropin	Polyclonal
Thyroid and parathyroid glands		
76	Calcitonin	Polyclonal
111	Thyroglobulin	Polyclonal
112	Thyroid Transcription Factor, TTF-1	8G7G3/1



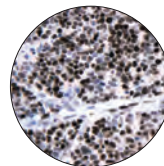
Gastrointestinal carcinoma stained with Anti-CDX2, Code IR080/IS080.



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



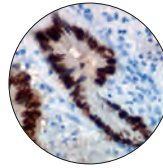
Granulosa cell tumor stained with Anti-Melan A, Code IR633/IS633.



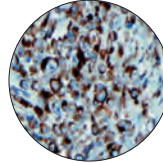
Lung small cell carcinoma stained with Anti-Thyroid Transcription Factor, Code IR056/IS056.

FLEX RTU Antibodies | Gastrointestinal Tract

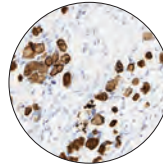
Page	Anti-	Clone
75	Beta-Catenin	β-Catenin-1
77	Calretinin	DAK-Calret 1
82	CD45, Leucocyte Common Antigen	2B11 + PD7/26
86	CDX2	DAK-CDX2
90	Desmin	D33
90	E-Cadherin	NCH-38
101	MUC2	CCP58
102	MUC5AC	CLH2
102	MutL Protein Homolog 1	ES05
102	MutS Protein Homolog 2	FE11
103	MutS Protein Homolog 6	EP49
104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



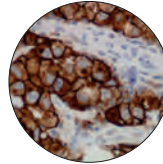
Colon adenocarcinoma stained with Anti-CDX2, Code IR080/IS080.



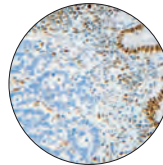
Rhabdomyosarcoma stained with Anti-Desmin, Code IR606/IS606.



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



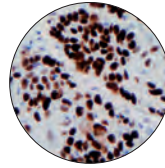
Epithelioid mesothelioma stained with Anti-Podoplanin, Code IR072/IS072.



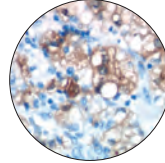
Colon adenocarcinoma (FFPE) with loss of PMS2 protein stained with FLEX Anti-PMS2, Code IR087.

FLEX RTU Antibodies | Kidney and Urinary Tract

Page	Anti-	Clone
79	CD10	56C6
92	Epithelial Membrane Antigen	E29
98	Ki-67 Antigen	MIB-1
100	Melan-A	A103
106	p53 Protein	DO-7
109	Renal Cell Carcinoma Marker	SPM314
110	S100	Polyclonal
116	S100 + Tyrosinase + Melan-A	Polyclonal + T311 + A103
73	Smooth Muscle Actin	1A4
113	Vimentin	V9



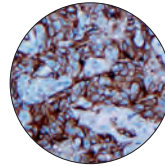
Transitional carcinoma of the bladder stained with Anti-p53 Protein, Code IR616/IS616.



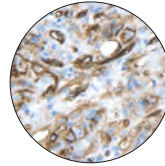
Renal cell carcinoma stained with Anti-Renal Cell Carcinoma Marker, Code IR075/IS075.

FLEX RTU Antibodies | Liver, Biliary System and Exocrine Pancreas

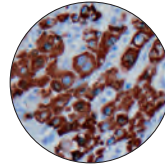
Page	Anti-	Clone
73	Alpha-1-Fetoprotein	Polyclonal
76	CA 125	M11
79	CD10	56C6
81	CD31, Endothelial Cell	JC/70A
82	CD34 Class II	QBEnd 10
86	CDX2	DAK-CDX2
92	Epithelial Membrane Antigen	E29
95	Hepatocyte	OCH1E5
98	Ki-67 Antigen	MIB-1
106	p53 Protein	DO-7
108	Progesterone Receptor	PgR 636
73	Smooth Muscle Actin	1A4



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



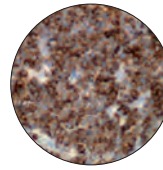
Angiosarcoma stained with Anti-CD34, Class II, Code IR632/IS632.



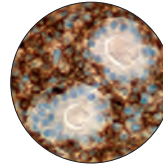
Hepatocellular carcinoma stained with Anti-Hepatocyte, Code IR624/IS624.

FLEX RTU Antibodies | Lymphatic Tissue and Bone Marrow

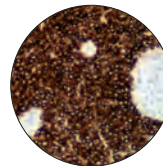
Page	Anti-	Clone
74	B-Cell-Specific Activator Protein	DAK-Pax-5
74	BCL2 Oncoprotein	124
75	BCL6 Protein	PG-B6p
77	CD1a	010
78	CD2	AB75
78	CD3	Polyclonal
115	CD3 + CD20cy	Polyclonal + L26
78	CD4	4B12
78	CD5	4C7
79	CD7	CBC.37
79	CD8	C8/144B
79	CD10	56C6
80	CD15	Carb-3
80	CD19	LE-CD19
80	CD20cy	L26
80	CD21	1F8
81	CD23	DAK-CD23
81	CD30	Ber-H2
81	CD31, Endothelial Cell	JC70A
82	CD34 Class II	QEnd 10
82	CD43	DF-T1
82	CD45, Leucocyte Common Antigen	2B11 + PD7/26
83	CD56	123C3
83	CD57	TB01
84	CD68	KP1
84	CD68	PG-M1
84	CD79 α	JCB117
85	CD138	MI15
86	CD246, ALK Protein	ALK1
87	Cyclin D1	EP12
92	Epithelial Membrane Antigen	E29
96	IgA	Polyclonal
96	IgD	Polyclonal
96	IgG	Polyclonal
97	IgM	Polyclonal
98	Kappa Light Chains	Polyclonal
98	Ki-67 Antigen	MIB-1
98	Lambda Light Chains	Polyclonal
102	MUM1 Protein	MUM1p
103	Myeloperoxidase	Polyclonal
105	Nucleophosmin	376
110	S100	Polyclonal
111	Terminal Deoxynucleotidyl Transferase	EP266
114	Von Willebrand Factor	Polyclonal
114	ZAP-70	2F3.2



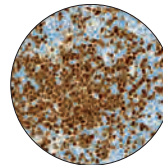
Precursor T-cell lymphoblastic lymphoma/leukemia stained with Anti-CD2, Code IR651/IS651.



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



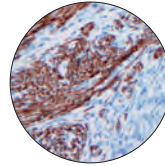
Precursor B-cell lymphoblastic lymphoma/leukemia stained with Anti-CD10, Code IR648/IS648.



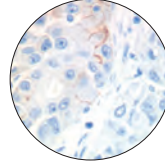
Mantle cell lymphoma stained with Anti-Cyclin D1, Code IR083/IS083.

FLEX RTU Antibodies | Mesothelial Surfaces

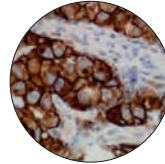
Page	Anti-	Clone
76	CA 125	M11
77	Calretinin	DAK-Calret 1
77	Carcinoembryonic Antigen	II-7
77	Carcinoembryonic Antigen	Polyclonal
90	Desmin	D33
91	Epithelial Antigen	Ber-EP4
92	Epithelial Membrane Antigen	E29
107	Podoplanin	D2-40
73	Smooth Muscle Actin	1A4
113	Vimentin	V9
114	Wilms' Tumor 1 Protein	6F-H2



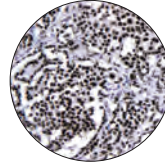
Uterine leiomyoma stained with Anti-Desmin, Code IR606/IS606.



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



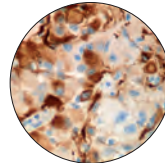
Mesothelioma stained with Anti-Podoplanin, Code IR072/IS072.



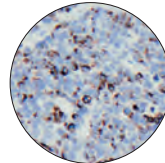
Mesothelioma stained with Anti-Wilms' Tumor 1 Protein, Code IR055/IS055.

FLEX RTU Antibodies | Nervous System

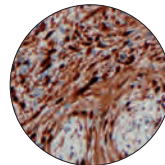
Page	Anti-	Clone
82	CD45, Leucocyte Common Antigen	2B11 + PD7/26
87	Cytokeratin	AE1/AE3
92	Epithelial Membrane Antigen	E29
94	Glial Fibrillary Acidic Protein	6F2
104	Neurofilament Protein	2F11
110	S100	Polyclonal
110	Synaptophysin	DAK-SYNAP



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



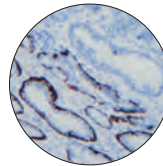
Merkel cell carcinoma stained with Anti-Neurofilament Protein, Code IR607/IS607.



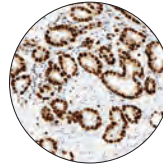
Schwannoma stained with Anti-S100, Code IR504/IS504.

FLEX RTU Antibodies | Prostate

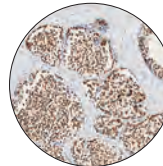
Page	Anti-	Clone
74	AMACR	13H4
115	AMACR + Cytokeratin HMW + Cytokeratin 5/6	13H4 + 34βE12 + D5/16 B4
87	Cytokeratin 5/6	D5/16 B4
92	ERG	EP111
98	Ki-67 Antigen	MIB-1
106	p53 Protein	DO-7
108	Prostate-Specific Antigen	Polyclonal
109	Prostate-Specific Membrane Antigen	3E6
109	Prostein	10E3



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



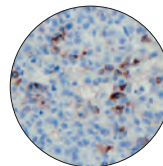
Prostate adenocarcinoma (FFPE) stained with FLEX Anti-ERG, Code IR659.



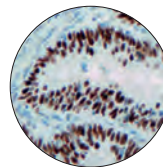
Prostate adenocarcinoma (FFPE) stained with FLEX Anti-Prostein, Code IR088.

FLEX RTU Antibodies | Reproductive System

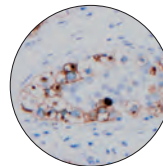
Page	Anti-	Clone
73	Alpha-1-Fetoprotein	Polyclonal
76	CA 125	M11
77	Calretinin	DAK-Calret 1
77	Carcinoembryonic Antigen	II-7
77	Carcinoembryonic Antigen	Polyclonal
86	CDX2	DAK-CDX2
92	Epithelial Membrane Antigen	E29
92	ERCC1	4F9
97	Inhibin α	R1
98	Ki-67 Antigen	MIB-1
100	Melan-A	A103
101	Melanosome	HMB-45
105	Octamer-Binding Transcription Factor 3/4	N1NK
106	p53 Protein	DO-7
107	Placental Alkaline Phosphatase	8A9
108	Progesterone Receptor	PgR 636
110	S100	Polyclonal
73	Smooth Muscle Actin	1A4
110	Synaptophysin	DAK-SYNAP
110	Vimentin	V9
114	Wilms' Tumor 1 Protein	6F-H2



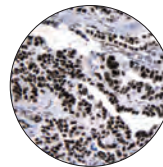
Yolk sac tumor stained with Anti-Alpha-1-Fetoprotein, Code IR500/IS500.



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



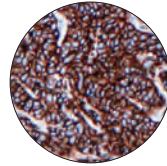
Intratubular germ cell tumor stained with Anti-Placental Alkaline Phosphatase, Code IR779/IS779.



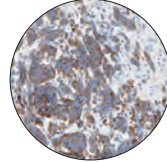
Serous ovarian adenocarcinoma stained with Anti-Wilms' Tumor 1 Protein, Code IR055/IS055.

FLEX RTU Antibodies | Respiratory System

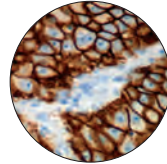
Page	Anti-	Clone
77	Calretinin	DAK-Calret 1
77	Carcinoembryonic Antigen	II-7
77	Carcinoembryonic Antigen	Polyclonal
83	CD56	123C3
91	Epithelial Antigen	Ber-EP4
92	Epithelial Membrane Antigen	E29
92	ERCC1	4F9
98	Ki-67 Antigen	MIB-1
106	p53 Protein	DO-7
107	Podoplanin	D2-40
110	S100	Polyclonal
110	Synaptophysin	DAK-SYNAP
112	Thyroid Transcription Factor, TTF-1	8G7G3/1
113	Vimentin	V9



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



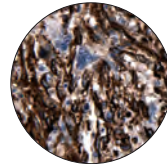
Small cell lung cancer (FFPE) stained with FLEX Anti-Synaptophysin, Code IR660.



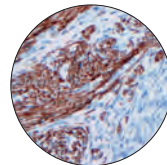
Lung adenocarcinoma stained with Anti-Epithelial Antigen, Code IR637/IS637.

FLEX RTU Antibodies | Skeletal Muscles

Page	Anti-	Clone
76	Caldesmon	h-CD
90	Desmin	D33
73	Muscle Actin	HHF35
104	Myogenin	F5D
104	Myosin Heavy Chain, Smooth Muscle	SMMS-1
73	Smooth Muscle Actin	1A4



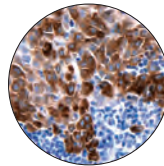
Leiomyosarcoma stained with Anti-Caldesmon, Code IR054/IS054.



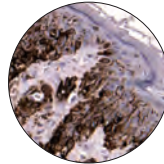
Leiomyosarcoma stained with Anti-Desmin, Code IR606/IS606.

FLEX RTU Antibodies | Skin

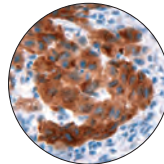
Page	Anti-	Clone
82	CD45, Leucocyte Common Antigen	2B11 + PD7/26
90	E-Cadherin	NCH-38
92	Epithelial Membrane Antigen	E29
100	Melan-A	A103
101	Melanosome	HMB-45
110	S100	Polyclonal
116	S100 + Tyrosinase Melan-A	Polyclonal + T311 + A103
73	Smooth Muscle Actin	1A4
110	Synaptophysin	DAK-SYNAP
112	Tyrosinase	T311



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



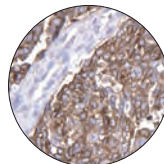
Melanoma stained with Anti-Melanosome, Code IR052/IS052.



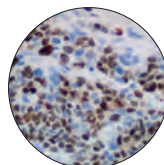
Malignant melanoma stained with Anti-Tyrosinase, Code IR061/IS061.

FLEX RTU Antibodies | Soft Tissue and Bones

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



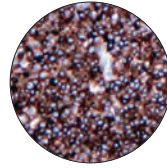
Ewing's sarcoma stained with Anti-CD99, Code IR057/IS057.



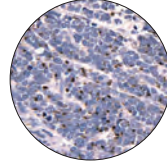
Rhabdomyosarcoma (FFPE) stained with FLEX Anti-Myogenin, Code IR067/IS067.

FLEX RTU Antibodies | Undifferentiated Tumors

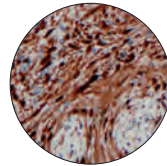
Page	Anti-	Clone
82	CD45, Leucocyte Common Antigen	2B11 + PD7/26
87	Cytokeratin	AE1/AE3
110	S100	Polyclonal
113	Vimentin	V9



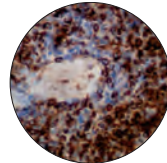
Acute myeloid leukemia stained with Anti-CD45, Code IR751/IS751.



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



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



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



Primary Antibodies

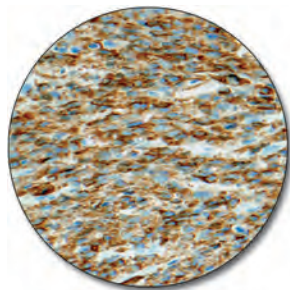
Monoclonal Mouse Anti-Human **Actin (Muscle)**

Clone: HHF35
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD M0635 Culture supernatant	1 mL
IVD IR700 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

IVD M0874 Culture supernatant	1 mL
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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

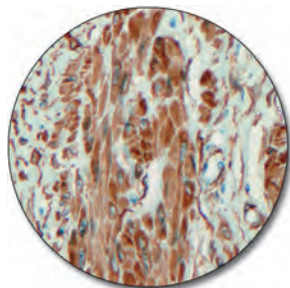
● Frozen ● Formalin ● HIER

IVD M0851 Culture supernatant	0.2 mL/1 mL
IVD IR611 RTU*, FLEX	60 tests, 12 mL▲
IVD 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:

- 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.
- 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

IVD M3501 Culture supernatant	1 mL
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Is specific for the C-terminal sequence of ACTH (ACTH 24-39) and was found not to cross-react with βLPH 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

ASR M3628 Culture supernatant	1 mL
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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

IVD F0117 FITC. Ig fraction	2 mL
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ALK Protein

See: CD246, ALK Protein

Dako FLEX RTU Antibodies for Liver/Biliary/Pancreas Testing

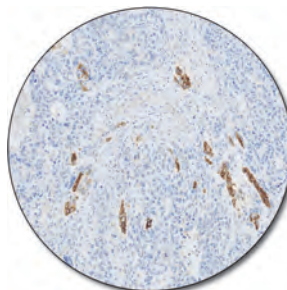
See our panel of FLEX antibodies at page 66

Polyclonal Rabbit Anti-Human **Alpha-1-Fetoprotein**

● Formalin ● HIER

IVD A0008 Ig fraction	0.2 mL
IVD GA500 RTU*, FLEX NEW	60 tests, 12 mL◆
IVD IR500 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

- ◆ 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

Primary Antibodies (continued)

Monoclonal Rabbit Anti-Human **AMACR**

Clone: 13H4

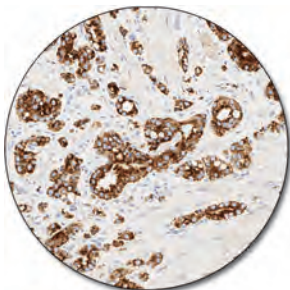
- Frozen ● Formalin ● HIER

IVD M3616 Culture supernatant	0.2 mL/1 mL
IVD GA060 RTU*, FLEX	60 tests, 12 mL♦
IVD IR060 RTU*, FLEX	60 tests, 12 mL▲
IVD 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 **Androgen Receptor**

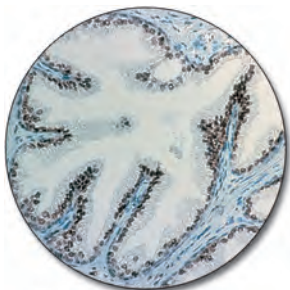
Clone: AR441

Isotype: IgG1, kappa

- Frozen ● Formalin ● HIER

IVD M3562 Culture supernatant	1 mL
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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.

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

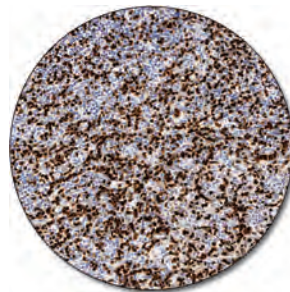
Clone: DAK-Pax5

Isotype: IgG1, kappa

- Frozen ● Formalin ● HIER

IVD M7307 Culture supernatant	1 mL
IVD GA650 RTU*, FLEX	60 tests, 12 mL♦
IVD IR650 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

IVD M0887 Culture supernatant	0.2 mL/1 mL
IVD IR614 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human

BCL6 Protein

Clone: PG-B6p
Isotype: IgG1, kappa

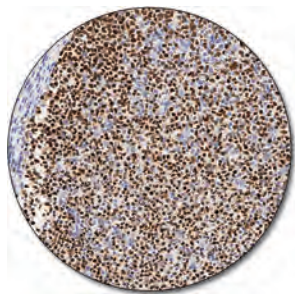
● Frozen ● Formalin ● HIER

IVD M7211 Culture supernatant	0.2 mL/1 mL
IVD GA625 RTU*, FLEX	60 tests, 12 mL♦
IVD IR625 RTU*, FLEX	60 tests, 12 mL▲
IVD 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:

- 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.
- 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

IVD M7260 Culture supernatant	0.2 mL
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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:

- 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.

Monoclonal Mouse Anti-Human

Beta-Amyloid

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

● Formalin ● HIER

IVD M0872 Culture supernatant	1 mL
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Labels deposits of beta-amyloid in brain tissue. 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

IVD M3539 Culture supernatant	1 mL
IVD GA702 RTU*, FLEX NEW	60 tests, 12 mL♦
IVD IR702 RTU*, FLEX	60 tests, 12 mL▲
IVD 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
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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

RUO F0254 FITC. Ig fraction	2 mL
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Polyclonal Rabbit Anti-Human

C3c Complement

● Formalin

IVD F0201 FITC. Ig fraction	2 mL
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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

IVD F0169 FITC. Ig fraction	2 mL
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♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human CA 19-9

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

- Formalin

IVD 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

IVD M3520 Ascites 1 mL
IVD GA701 RTU*, FLEX 60 tests, 12 mL♦
IVD IR701 RTU*, FLEX 60 tests, 12 mL▲
IVD 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.



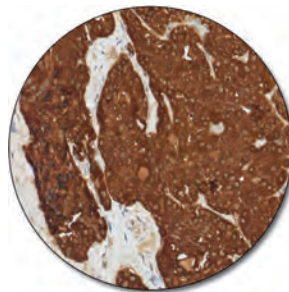
Ovarian carcinoma (FFPE) stained with FLEX Anti-CA 125, Code GA701, on Dako Omnis.

Polyclonal Rabbit Anti-Human Calcitonin

- Formalin • HIER

IVD A0576 Ig fraction 1 mL
IVD GA515 RTU*, FLEX **NEW** 60 tests, 12 mL♦
IVD IR515 RTU*, FLEX 60 tests, 12 mL▲
IVD 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.

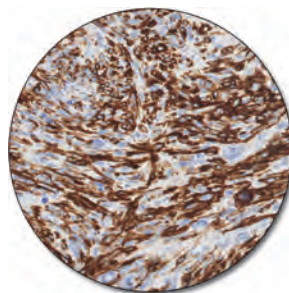
Monoclonal Mouse Anti-Human Caldesmon

Clone: h-CD
Isotype: IgG1, kappa

- Frozen • Formalin • Enzyme + HIER

IVD M3557 Culture supernatant 1 mL
IVD GA054 RTU*, FLEX **NEW** 60 tests, 12 mL♦
IVD IR054 RTU*, FLEX 60 tests, 12 mL▲
IVD 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.

♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human

Calponin

Clone: CALP
Isotype: IgG1, kappa

- Frozen ● Formalin ● Enzyme + HIER

IVD 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

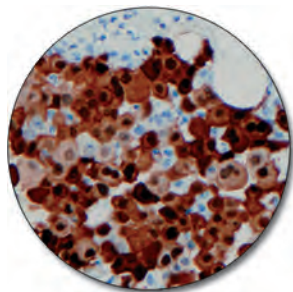
Calretinin

Clone: DAK-Calret 1
Isotype: IgG1, kappa

- Formalin ● Enzyme/HIER

IVD M7245 Culture supernatant 0.2 mL/1 mL
IVD IR627 RTU*, FLEX 60 tests, 12 mL▲
IVD 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

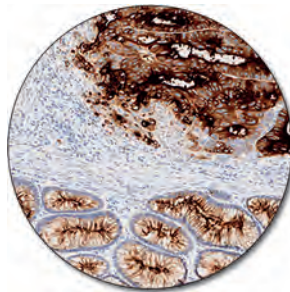
IVD M7072 Culture supernatant 0.2 mL/1 mL
IVD GA622 RTU*, FLEX 60 tests, 12 mL◆
IVD IR622 RTU*, FLEX 60 tests, 12 mL▲
IVD IS622 RTU*, FLEX 30 tests, 6 mL△

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, Börner 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.



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

Polyclonal Rabbit Anti-Human

Carcinoembryonic Antigen (CEA)

- Formalin ● Enzyme

IVD GA526 RTU*, FLEX 60 tests, 12 mL◆
IVD IR526 RTU*, FLEX 60 tests, 12 mL▲
IVD 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

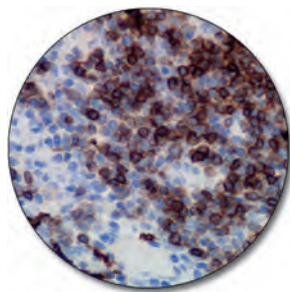
CD1a

Clone: 010
Isotype: IgG1, kappa

- Frozen ● Formalin ● HIER

IVD M3571 Culture supernatant 1 mL
IVD IR069 RTU*, FLEX 60 tests, 12 mL▲
IVD 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 β_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.

- ◆ 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

Primary Antibodies (continued)

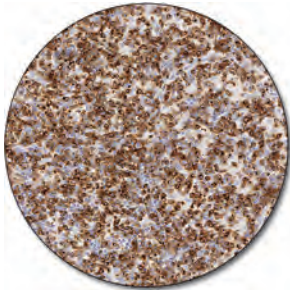
Monoclonal Mouse Anti-Human CD2

Clone: AB75
Isotype: IgG1, kappa

• Formalin • HIER

IVD M7309 Culture supernatant	1 mL
IVD GA651 RTU*, FLEX	60 tests, 12 mL♦
IVD IR651 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

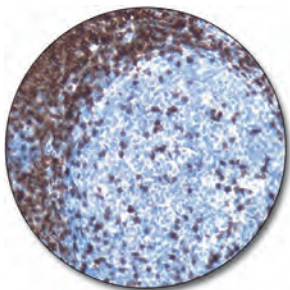
• Frozen • Formalin • HIER

IVD M7254 Culture supernatant	0.2 mL/1 mL
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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:

- 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.

Polyclonal Rabbit Anti-Human CD3

• Frozen • Formalin • HIER

IVD A0452 Affinity isolated	0.2 mL/1 mL
IVD GA503 RTU*, FLEX	60 tests, 12 mL♦
IVD IR503 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

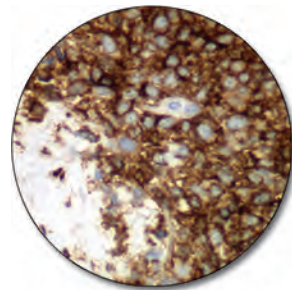
Monoclonal Mouse Anti-Human CD4

Clone: 4B12
Isotype: IgG1, kappa

• Frozen • Formalin • HIER

IVD M7310 Culture supernatant	0.2 mL/1 mL
IVD IR649 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

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

Reacts with CD5 expressed on B and T cells and may be a useful aid for the classification 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.

- ♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human CD7

Clone: CBC.37
Isotype: IgG2b, kappa

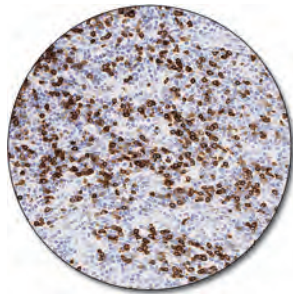
● Frozen ● Formalin ● HIER

IVD M7255 Culture supernatant	1 mL
IVD GA643 RTU*, FLEX	60 tests, 12 mL♦
IVD IR643 RTU*, FLEX	60 tests, 12 mL▲
IVD 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:

- 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.

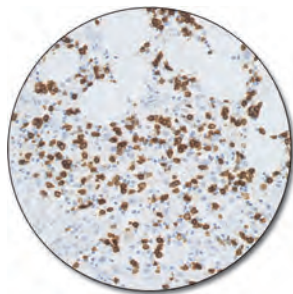
Monoclonal Mouse Anti-Human CD8

Clone: C8/144B
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD M7103 Culture supernatant	1 mL
IVD GA623 RTU*, FLEX NEW	60 tests, 12 mL♦
IVD IR623 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

IVD M7308 Culture supernatant	0.2 mL/1 mL
IVD GA648 RTU*, FLEX	60 tests, 12 mL♦
IVD IR648 RTU*, FLEX	60 tests, 12 mL▲
IVD IS648 RTU*, FLEX	30 tests, 6 mL△

CD10 is a cell surface metalloproteinase, 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 canalicular 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. Furthermore, 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:

- 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 66

Monoclonal Mouse Anti-Human CD14

Clone: TÜK4
Isotype: IgG2a, kappa

● Frozen

IVD M0825 Culture supernatant	1 mL
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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:

- 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.

♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human CD15

Clone: Carb-3
Isotype: IgM

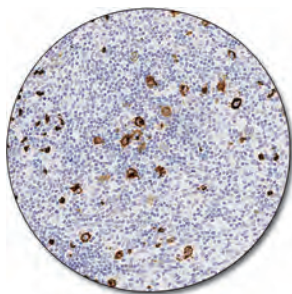
● Frozen ● Formalin ● HIER

IVD M3631 Culture supernatant	0.2 mL/1 mL
IVD GA062 RTU*, FLEX	60 tests, 12 mL◆
IVD IR062 RTU*, FLEX	60 tests, 12 mL▲
IVD 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:

- 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.

Monoclonal Mouse Anti-Human CD19

Clone: LE-CD19
Isotype: IgG1, kappa

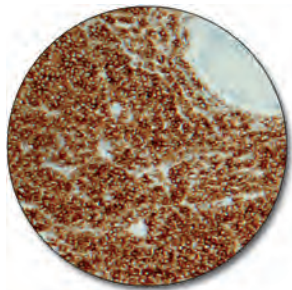
● Frozen ● Formalin ● HIER

IVD M7296 Culture supernatant	0.2 mL
IVD IR656 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

Reference:

- 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.



Precursor B-cell lymphoblastic leukemia/lymphoma (FFPE) stained with FLEX Anti-CD19, Code IR656/IS656.

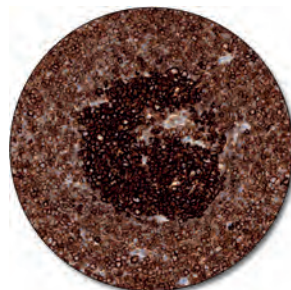
Monoclonal Mouse Anti-Human CD20cy

Clone: L26
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

IVD M0755 Culture supernatant	0.2 mL/1 mL
IVD GA604 RTU*, FLEX	60 tests, 12 mL◆
IVD IR604 RTU*, FLEX	60 tests, 12 mL▲
IVD 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 67

Monoclonal Mouse Anti-Human CD21

Clone: 1F8
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

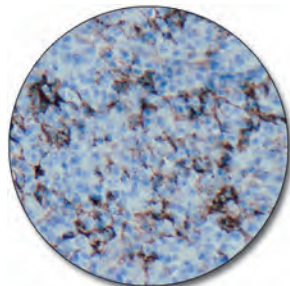
IVD M0784 Culture supernatant	1 mL
IVD IR608 RTU*, FLEX	60 tests, 12 mL▲
IVD IS608 RTU*, FLEX	30 tests, 6 mL△

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:

- 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.
- 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.

◆ 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



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

Monoclonal Mouse Anti-Human CD23

Clone: DAK-CD23
Isotype: IgG1, kappa

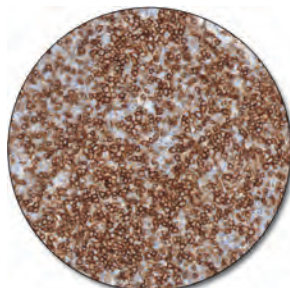
- Frozen ● Formalin ● HIER

IVD M7312 Culture supernatant	1 mL
IVD GA781 RTU*, FLEX NEW	60 tests, 12 mL♦
IVD IR781 RTU*, FLEX	60 tests, 12 mL▲
IVD 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:

- 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.



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

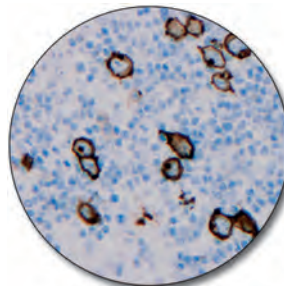
Monoclonal Mouse Anti-Human CD30

Clone: Ber-H2
Isotype: IgG1, kappa

- Frozen ● Formalin ● HIER

IVD M0751 Culture supernatant	0.2 mL/1 mL
IVD IR602 RTU*, FLEX	60 tests, 12 mL▲
IVD 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 differentiation 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

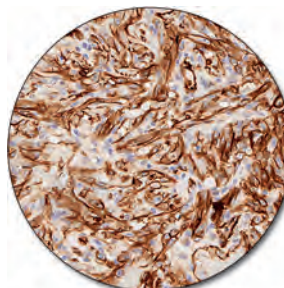
- Frozen ● Formalin ● HIER

IVD M0823 Culture supernatant	0.2 mL/1 mL
IVD GA610 RTU*, FLEX	60 tests, 12 mL♦
IVD IR610 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

Reference:

- 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.



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

Primary Antibodies (continued)

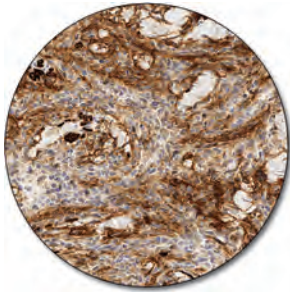
Monoclonal Mouse Anti-Human CD34 Class II

Clone: QBEnd 10
Isotype: IgG1, kappa

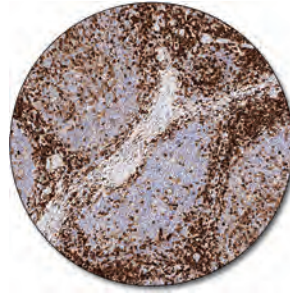
● Frozen ● Formalin ● Enzyme/HIER

IVD M7165 Culture supernatant	0.2 mL/1 mL
IVD GA632 RTU*, FLEX	60 tests, 12 mL♦
IVD IR632 RTU*, FLEX	60 tests, 12 mL▲
IVD 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 classification of vascular and lymphatic tumors and for the subclassification of leukemias.



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



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

IVD M7082 Culture supernatant	1 mL
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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 CD35

Clone: Ber-MAC-DRC
Isotype: IgG1, kappa

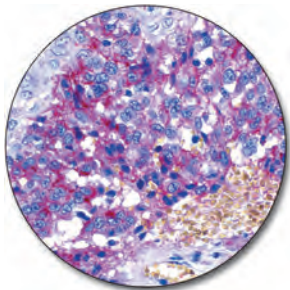
● Frozen ● Formalin ● HIER

IVD M0846 Culture supernatant	1 mL
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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, Imai 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.

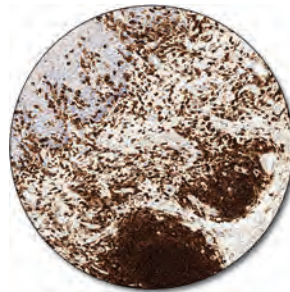
Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen

Clone: 2B11 + PD7/26
Isotype: IgG1, kappa + IgG1, kappa

● Frozen ● Formalin ● HIER

IVD M0701 Culture supernatant	0.2 mL/1 mL
IVD GA751 RTU*, FLEX	60 tests, 12 mL♦
IVD IR751 RTU*, FLEX	60 tests, 12 mL▲
IVD IS751 RTU*, FLEX	30 tests, 6 mL△

CD45 is a transmembrane glycoprotein expressed on most nucleated cells of hematopoietic 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 isoforms 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 CD43

Clone: DF-T1
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD M0786 Culture supernatant	1 mL
IVD GA636 RTU*, FLEX	60 tests, 12 mL♦
IVD IR636 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

- ♦ 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

Primary Antibodies (continued)

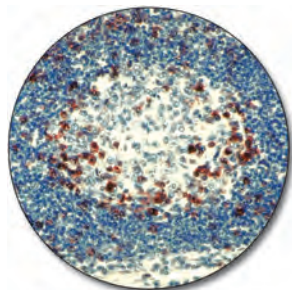
Monoclonal Mouse Anti-Human CD45R0

Clone: UCHL1
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

IVD M0742 Culture supernatant 1 mL

CD45 is a transmembrane glycoprotein expressed on most nucleated cells of hematopoietic origin. On human leucocytes, five different isoforms of CD45 have been identified, named ABC, AB, BC, B and O. 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

IVD 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.

Monoclonal Mouse Anti-Human CD56

Clone: 123C3
Isotype: IgG1, kappa

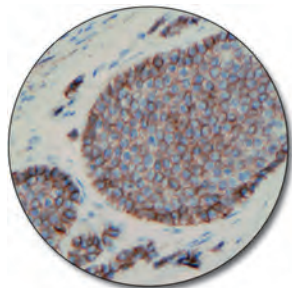
● Frozen ● Formalin ● HIER

IVD M7304 Culture supernatant 0.2 mL/1 mL

IVD IR628 RTU*, FLEX 60 tests, 12 mL▲

IVD 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

IVD M7271 Culture supernatant 0.2 mL

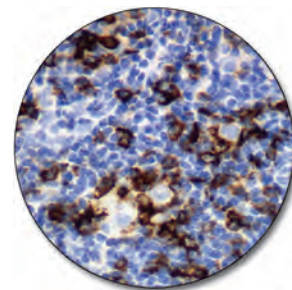
IVD IR647 RTU*, FLEX 60 tests, 12 mL▲

IVD 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.

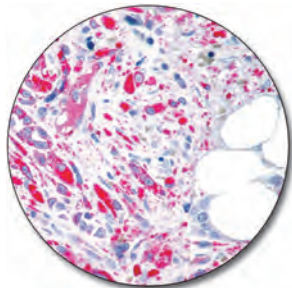
Monoclonal Mouse Anti-Human CD61, Platelet Glycoprotein IIIa

Clone: Y2/51
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

IVD M0753 Culture supernatant 1 mL

Platelet glycoprotein IIIa (GpIIIa) is identical to the β 3-integrin subunit, which can associate with the α V-chain (CD51) to form vitronectin receptor, or with the α IIb-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.

▲ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human **CD68**

Clone: EBM11
Isotype: IgG1, kappa

- Frozen

IVD 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

IVD M0814 Culture supernatant 1 mL

IVD GA609 RTU*, FLEX 60 tests, 12 mL♦

IVD IR609 RTU*, FLEX 60 tests, 12 mL▲

IVD 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.

Monoclonal Mouse Anti-Human **CD79α**

Clone: JCB117
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD M7050 Culture supernatant 0.2 mL/1 mL

IVD GA621 RTU*, FLEX 60 tests, 12 mL♦

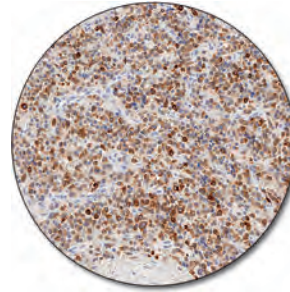
IVD IR621 RTU*, FLEX 60 tests, 12 mL▲

IVD 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 **CD68**

Clone: PG-M1
Isotype: IgG3, kappa

- Frozen • Formalin • (Enzyme)/HIER

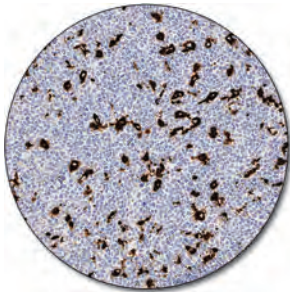
IVD M0876 Culture supernatant 0.2 mL/1 mL

IVD GA613 RTU*, FLEX 60 tests, 12 mL♦

IVD IR613 RTU*, FLEX 60 tests, 12 mL▲

IVD 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 **CD99, MIC2 Gene Products, Ewing's Sarcoma Marker**

Clone: 12E7
Isotype: IgG1, kappa

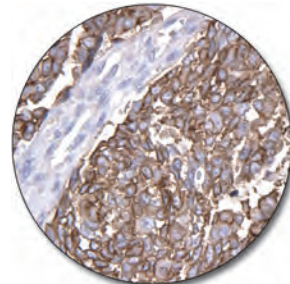
- Frozen • Formalin

IVD M3601 Culture supernatant 1 mL

IVD IR057 RTU*, FLEX 60 tests, 12 mL▲

IVD 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.

- ♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human

CD105, Endoglin

Clone: SN6h
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme

IVD 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

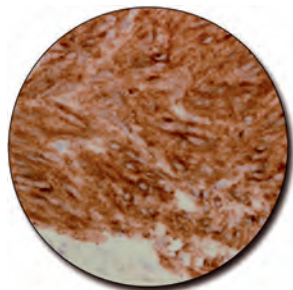
● Frozen ● Formalin ● HIER

IVD 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.



Gastrointestinal tumor (FFPE) stained with Anti-CD117, c-kit.

Monoclonal Mouse Anti-Human

CD138

Clone: MI15
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD M7228 Culture supernatant 1 mL

IVD GA642 RTU*, FLEX 60 tests, 12 mL♦

IVD IR642 RTU*, FLEX 60 tests, 12 mL▲

IVD 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

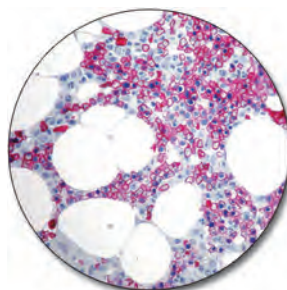
CD235a, Glycophorin A

Clone: JC159
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD 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

♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human CD246, ALK Protein

Clone: ALK1
Isotype: IgG3, kappa

● Frozen ● Formalin ● HIER

IVD M7195 Culture supernatant	0.2 mL/1 mL
IVD GA641 RTU*, FLEX	60 tests, 12 mL♦
IVD IR641 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

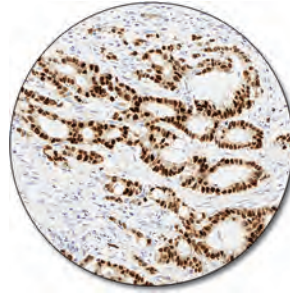
Monoclonal Mouse Anti-Human CDX2

Clone: DAK-CDX2
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD M3636 Culture supernatant	0.2 mL/1 mL
IVD GA080 RTU*, FLEX	60 tests, 12 mL♦
IVD IR080 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

ASR A0485 Affinity isolated 0.2 mL

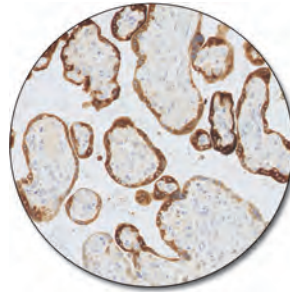
A synthetic peptide, coupled to keyhole limpet hemocyanin, has been used for immunization. The peptide represents part of the predicted 185 kDa oncoprotein encoded by ERBB2, also termed HER2 or NEU. The antibody recognizes an epitope on the cytoplasmic part of the cell membrane-bound c-erbB-2 oncoprotein.

Polyclonal Rabbit Anti-Human Chorionic Gonadotropin (hCG)

● Formalin ● HIER

IVD A0231 Ig fraction	2 mL
IVD GA508 RTU*, FLEX NEW	60 tests, 12 mL♦
IVD IR508 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

IVD M0869 Culture supernatant	0.2 mL/1 mL
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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.

c-kit

See: CD117, c-kit

♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human

Collagen IV

Clone: CIV 22
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD 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

IVD 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

IVD M3642 Affinity isolated 1 mL

IVD GA083 RTU*, FLEX **NEW** 60 tests, 12 mL♦

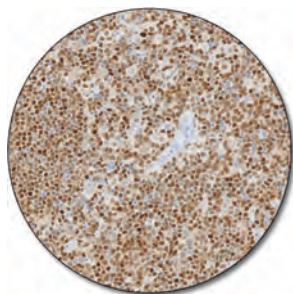
IVD IR083 RTU*, FLEX 60 tests, 12 mL▲

IVD 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).

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

IVD M3515 Ascites 0.2 mL/1 mL

IVD GA053 RTU*, FLEX 60 tests, 12 mL♦

IVD IR053 RTU*, FLEX 60 tests, 12 mL▲

IVD 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 Tumor Testing

See our panel of FLEX antibodies at

page 72

Monoclonal Mouse Anti-Human

Cytokeratin

Clone: MNF116
Isotype: IgG1, kappa

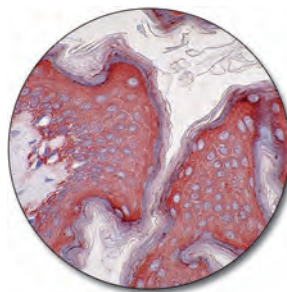
● Frozen ● Formalin ● Enzyme

IVD 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, Nührig 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.

♦ 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

Primary Antibodies (continued)

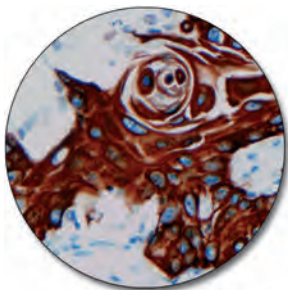
Monoclonal Mouse Anti-Human Cytokeratin 5/6

Clone: D5/16 B4
Isotype: IgG1, kappa

- Frozen ● Formalin ● HIER

IVD M7237 Ascites Ig fraction	0.2 mL/1 mL
IVD GA780 RTU*, FLEX	60 tests, 12 mL♦
IVD IR780 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

Monoclonal Mouse Anti-Human Cytokeratin 7

Clone: OV-TL 12/30
Isotype: IgG1, kappa

- Frozen ● Formalin ● Enzyme/HIER

IVD M7018 Culture supernatant	0.2 mL/1 mL
IVD GA619 RTU*, FLEX	60 tests, 12 mL♦
IVD IR619 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

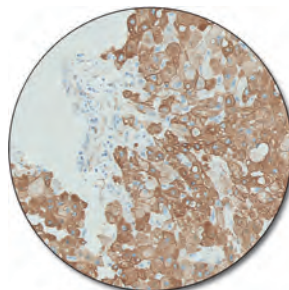
IVD M3652 Culture supernatant	1 mL
IVD IR094 RTU*	60 tests, 12 mL▲

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

IVD M7002 Culture supernatant	1 mL
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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

IVD M7003 Culture supernatant	1 mL
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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.

♦ 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

Primary Antibodies (continued)

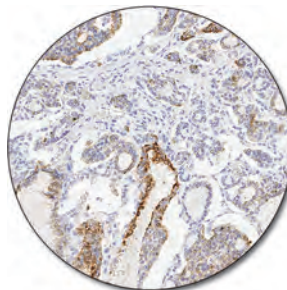
Monoclonal Mouse Anti-Cytokeratin 17

Clone: E3
Isotype: IgG2b, kappa

● Frozen ● Formalin ● HIER

IVD M7046 Culture supernatant	1 mL
IVD IR620 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.



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

Monoclonal Mouse Anti-Human Cytokeratin 18

Clone: DC 10
Isotype: IgG1, kappa

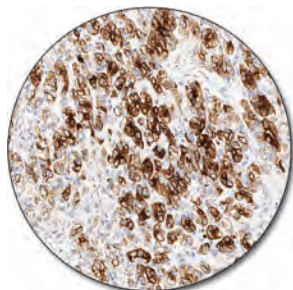
● Frozen ● Formalin ● Enzyme/HIER

IVD M7010 Culture supernatant	0.2 mL
IVD GA618 RTU*, FLEX	60 tests, 12 mL◆
IVD IR618 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.



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

Monoclonal Mouse Anti-Human Cytokeratin 20

Clone: K₂₀.8
Isotype: IgG2a, kappa

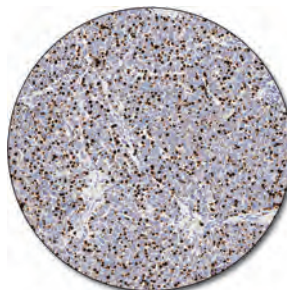
● Formalin ● Enzyme/HIER

IVD M7019 Purified	0.2 mL/1 mL
IVD GA777 RTU*, FLEX	60 tests, 12 mL◆
IVD IR777 RTU*, FLEX	60 tests, 12 mL▲
IVD 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 19

Clone: RCK108
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

IVD M0888 Culture supernatant	1 mL
IVD GA615 RTU*, FLEX	60 tests, 12 mL◆
IVD IR615 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

◆ 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

Primary Antibodies (continued)

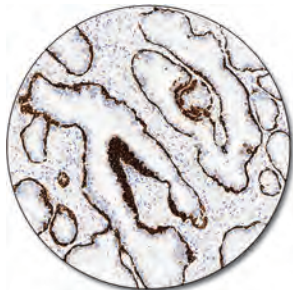
Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight

Clone: 34βE12
Isotype: IgG1, kappa

- Frozen • Formalin • Enzyme + HIER

IVD M0630 Culture supernatant	0.2 mL/1 mL
IVD GA051 RTU*, FLEX	60 tests, 12 mL♦
IVD IR051 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.



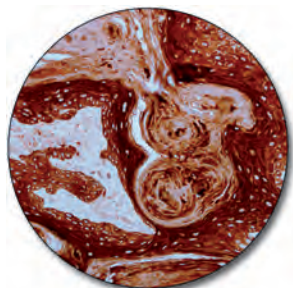
Prostate (FFPE) stained with FLEX Anti-Cytokeratin HMW, Code GA051, on Dako Omnis.

Polyclonal Rabbit Anti-Cytokeratin, Wide Spectrum Screening

- Formalin • Enzyme

IVD 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.

Monoclonal Mouse Anti-Cytomegalovirus

Clone: CCH2 + DDG9
Isotype: IgG2a, kappa + IgG1, kappa

ASR M0854 Culture supernatant 1 mL

Reacts with CMV immediate early antigen and early antigen. The antibody shows no cross-reaction with other herpesviruses or with adenovirus.

D2-40

See: Podoplanin

Dendritic Reticulum Cell

See: CD35

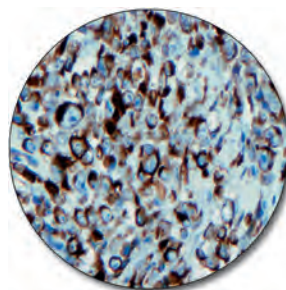
Monoclonal Mouse Anti-Human Desmin

Clone: D33
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD M0760 Culture supernatant	0.2 mL/1 mL
IVD IR606 RTU*, FLEX	60 tests, 12 mL▲
IVD IS606 RTU*, FLEX	30 tests, 6 mL△

Labels smooth and striated muscle cells. The antibody works on paraffin-embedded material without pretreatment 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.

Dako FLEX RTU Antibodies for Skeletal Muscle Testing

See our panel of FLEX antibodies at

page 70

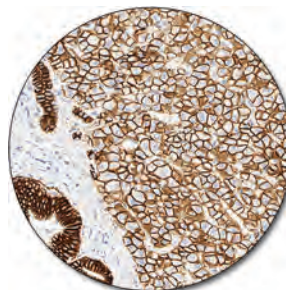
Monoclonal Mouse Anti-Human E-Cadherin

Clone: NCH-38
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD M3612 Culture supernatant	0.2 mL/1 mL
IVD GA059 RTU*, FLEX	60 tests, 12 mL♦
IVD IR059 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

- ♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human

EGFR

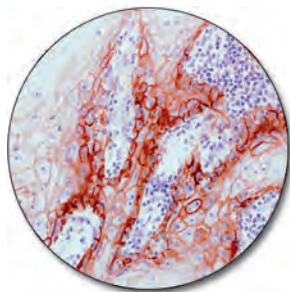
Clone: H11

Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme

IVD 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:

- 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:

- 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.
- Lombardo CR, Conslor 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

ASR 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.

Epidermal Growth Factor Receptor

See: EGFR

Monoclonal Mouse Anti-Human

Epithelial Antigen

Clone: Ber-EP4

Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

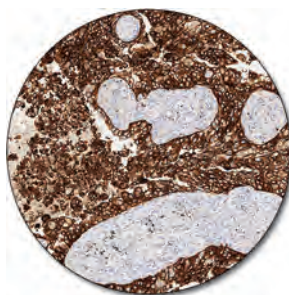
IVD M0804 Culture supernatant 0.2 mL/1 mL

IVD GA637 RTU*, FLEX 60 tests, 12 mL♦

IVD IR637 RTU*, FLEX 60 tests, 12 mL▲

IVD 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 68](#)

- ♦ 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

Primary Antibodies (continued)

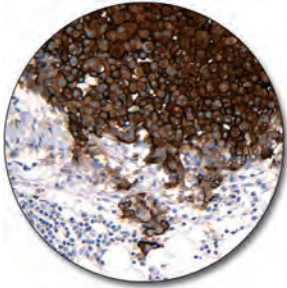
Monoclonal Mouse Anti-Human Epithelial Membrane Antigen (EMA)

Clone: E29
Isotype: IgG2a, kappa

● Frozen ● Formalin ● Enzyme/HIER

IVD M0613 Culture supernatant	0.2 mL/1 mL
IVD IR629 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

IVD M3525 Culture supernatant	1 mL
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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: GS.1-4
Isotype: IgG1, kappa

ASR M0897 Culture supernatant	1 mL
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Labels the Epstein-Barr virus-encoded latent gene product, latent membrane protein (LMP).

Monoclonal Mouse Anti-Human ERCC1

Clone: 4F9
Isotype: IgG1, kappa

● Formalin ● HIER

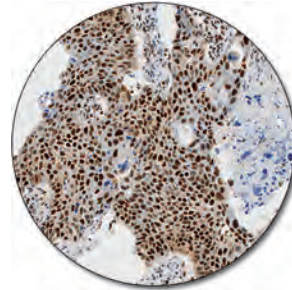
IVD M3648 Culture supernatant	0.2 mL/1 mL
IVD IR091 RTU*, FLEX	60 tests, 12 mL▲

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. Olausson 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

IVD M7314 Affinity isolated	0.2 mL/1 mL
IVD GA659 RTU*, FLEX NEW	60 tests, 12 mL♦
IVD IR659 RTU*, FLEX	60 tests, 12 mL▲

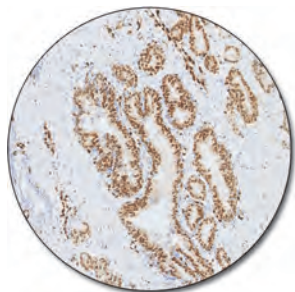
Ets-related gene (ERG) product is a ~41 kDa nuclear protein functioning as a DNA-binding transcriptional regulator that belongs to the erythroblast transformation-specific (ETS) family of transcription factors. In prostate cancer, ERG has most frequently been shown as a fusion protein with transmembrane 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.

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.

♦ 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



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

Monoclonal Rabbit Anti-Human Estrogen Receptor α

Clone: EP1

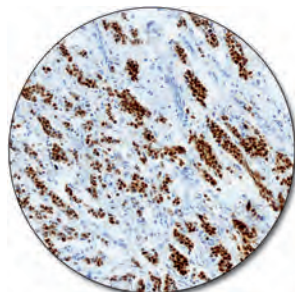
- Formalin • HIER

IVD IR084 RTU*, FLEX 60 tests, 12 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 be 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.

Dako FLEX RTU Antibodies for Breast Tissue Testing

See our panel FLEX antibodies at

page 64

Monoclonal Mouse Anti-Human Estrogen Receptor β 1

Clone: PPG5/10

Isotype: IgG2a

- Formalin • HIER

IVD M7292 Culture supernatant* 1 mL

The antibody labels human wild type estrogen receptor β (ER β 1) protein and is a useful tool for the characterization of the ER β 1 status in human breast (1, 2) and prostate carcinomas (3). Results from a number of studies suggest a loss of ER β 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 ER α /ER β ratio is proposed to govern tumor development (4). In prostatic neoplasia, the expression of ER β appears complex, thus ER β , as detected with anti-ERER β 1, 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 (ER β 1) 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 (ER β) 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 ER β expression as a common step in estrogen-dependent tumor progression (review). Endocr Relat Cancer 2004;11:537-51.

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

IVD 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

IVD 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, β hCG, prolactin, hGH and hCG. The antibody labels gonadotrophic cells of the pituitary. Results aid in the classification of pituitary adenomas.

- Product to be discontinued on 31 December 2016
- ▲ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human Follicular Dendritic Cell

Clone: CNA.42
Isotype: IgM

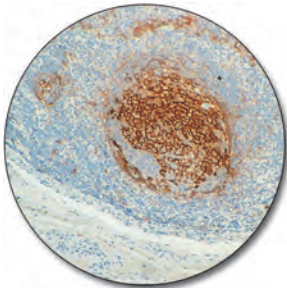
- Formalin • HIER

IVD 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.



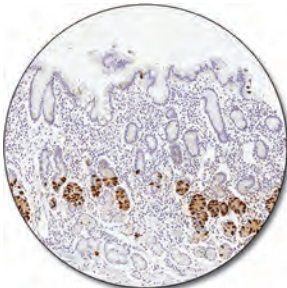
Tonsil (FFPE) stained with Anti-Follicular Dendritic Cell, Code M7157.

Polyclonal Rabbit Anti-Human Gastrin

- Formalin

IVD A0568 Ig fraction 1 mL
IVD GA519 RTU*, FLEX 60 tests, 12 mL♦
IVD IR519 RTU*, FLEX 60 tests, 12 mL▲
IVD 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

IVD 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)

IVD Z0334 Ig fraction 0.2 mL/1 mL
IVD GA524 RTU*, FLEX 60 tests, 12 mL♦
IVD IR524 RTU*, FLEX 60 tests, 12 mL▲
IVD 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

Monoclonal Mouse Anti-Human Glycophorin C

Clone: Ret40f
Isotype: IgG1, kappa

- Frozen • Formalin • Enzyme/HIER

IVD 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.

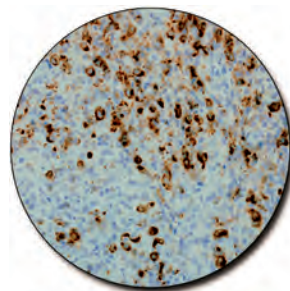
Monoclonal Mouse Anti-Human Granzyme B

Clone: GrB-7
Isotype: IgG2a, kappa

- Formalin • HIER

IVD 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 actors 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.

- ♦ 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

Primary Antibodies (continued)

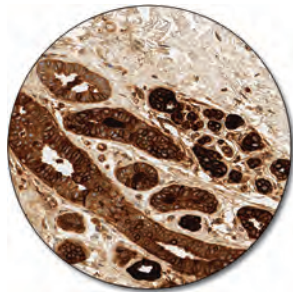
Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15

Clone: 23A3
Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

IVD M3638 Culture supernatant	1 mL
IVD GA077 RTU*, FLEX	60 tests, 12 mL♦
IVD IR077 RTU*, FLEX	60 tests, 12 mL▲
IVD IS077 RTU*, FLEX	30 tests, 6 mL△

Gross cystic disease fluid protein-15 (GCDFFP-15) is a 15 kDa monomeric secretory glycoprotein encoded by the *prolactin-inducible protein (PIP)* gene. GCDFFP-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 GCDFFP-15 are a useful aid for classification of breast carcinoma and metastatic tumors of breast origin.



Breast hyperplasia (FFPE) stained with FLEX Anti-GCDFFP-15, Code GA077, on Dako Omnis.

Polyclonal Rabbit Anti-Human Growth Hormone (hGH)

● Frozen ● Formalin

IVD A0570 Whole serum	1 mL
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Reacts with growth hormone-producing cells in the pituitary and is a useful aid for classification of pituitary adenomas.

Polyclonal Rabbit Anti- Helicobacter Pylori

ASR B0471 Ig fraction	0.2 mL/1 mL
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The antibody labels *H. pylori* on the surface and in the cytoplasm of epithelial cells in stomach biopsies.

Polyclonal Rabbit Anti- Hepatitis B Virus Core Antigen (HBcAg)

ASR B0586 Whole serum	1 mL
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Labels nuclei and occasionally the cytoplasm of virus-infected liver cells.

Monoclonal Mouse Anti-Human Hepatocyte

Clone: OCH1E5
Isotype: IgG1, kappa

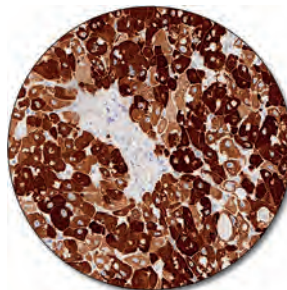
● Frozen ● Formalin ● HIER

IVD M7158 Culture supernatant	1 mL
IVD GA624 RTU*, FLEX	60 tests, 12 mL♦
IVD IR624 RTU*, FLEX	60 tests, 12 mL▲
IVD 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
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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

IVD B0114 Ig fraction	2 mL
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The antigen used for immunization has been prepared by sonication and extraction of herpes simplex virus type 1-infected rabbit cornea cells. In the antigen all the virus proteins are present. The antibody reacts with type-specific, i.e. HSV-1, as well as with type-common, i.e. also with HSV-2 antigens.

Polyclonal Rabbit Anti- Herpes Simplex Virus Type 2

● Frozen ● Formalin

IVD B0116 Ig fraction	2 mL
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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.

HIV

See: Human Immunodeficiency Virus (HIV), p24

Monoclonal Mouse Anti-Human HLA-ABC Antigen

Clone: W6/32
Isotype: IgG2a, kappa

● Frozen

IVD M0736 Culture supernatant	1 mL
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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.

♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human HLA-DP, DQ, DR Antigen

Clone: CR3/43

Isotype: IgG1, kappa

- Frozen ● Formalin

IVD 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.

Monoclonal Mouse Anti-Human HLA-DR Antigen, Alpha-Chain

Clone: TAL.1B5

Isotype: IgG1, kappa

- Frozen ● Formalin ● HIER

RUO 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

ASR 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

IVD A0262 Ig fraction 1 mL

IVD F0204 FITC. Ig fraction 2 mL

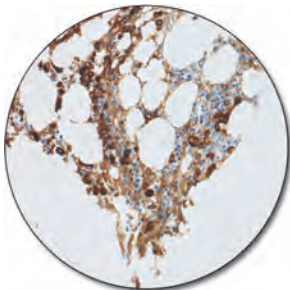
IVD GA510 RTU*, FLEX **NEW** 60 tests, 12 mL♦

IVD IR510 RTU*, FLEX 60 tests, 12 mL▲

IVD 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.



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

Polyclonal Rabbit Anti-Human IgA, Specific for Alpha-Chains

ASR F0316 FITC. F(ab)₂ 1 mL

Polyclonal Rabbit Anti-Human IgA, IgG, IgM, Kappa, Lambda

- Frozen ● Formalin ● Enzyme

IVD F0200 FITC. Ig fraction 2 mL

IVD P0212 HRP. Ig fraction 2 mL

Very well-suited for the demonstration of human antibodies, no matter what the immunoglobulin class may be.

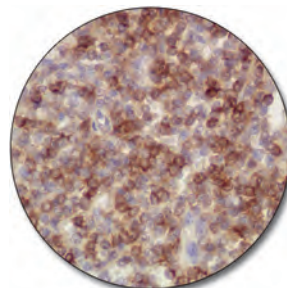
Polyclonal Rabbit Anti-Human IgD

- Formalin ● HIER

IVD IR517 RTU*, FLEX 60 tests, 12 mL▲

IVD 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

IVD A0423 Ig fraction 1 mL

IVD D0336 AP. Affinity isolated 1 mL

IVD F0202 FITC. Ig fraction 2 mL

IVD F0315 FITC. F(ab)₂ 1 mL

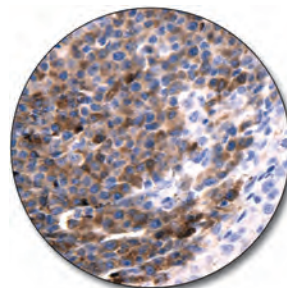
IVD P0214 HRP. Ig fraction 2 mL

IVD IR512 RTU*, FLEX 60 tests, 12 mL▲

IVD 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

Primary Antibodies (continued)

Polyclonal Rabbit Anti-Human IgM, Specific for Mu-Chains

- Frozen • Formalin • Enzyme/HIER

IVD	A0425	Ig fraction	1 mL
IVD	F0203	FITC. Ig fraction	2 mL
IVD	P0215	HRP. Ig fraction	2 mL
IVD	IR513	RTU*, FLEX	60 tests, 12 mL▲
IVD	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.

Monoclonal Mouse Anti-Human IMP3

Clone: 69.1
Isotype: IgG2a, kappa

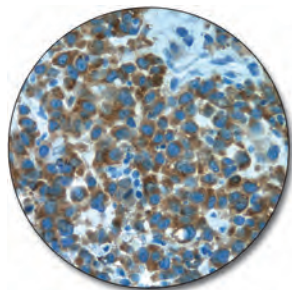
- Frozen • Formalin • HIER

IVD	M3626	Culture supernatant	0.2 mL
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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.

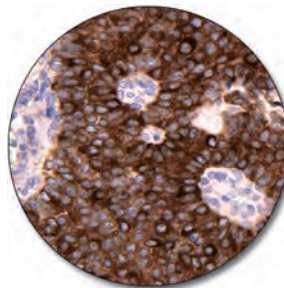
Monoclonal Mouse Anti-Human Inhibin α

Clone: R1
Isotype: IgG2a, kappa

- Frozen • Formalin • HIER

IVD	M3609	Culture supernatant	1 mL
IVD	IR058	RTU*, FLEX	60 tests, 12 mL▲
IVD	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.



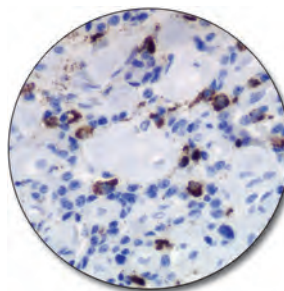
Granulosa cell tumor (FFPE) stained with FLEX Anti-Inhibin α, Code IR058/IS058.

Polyclonal Guinea Pig Anti- Insulin

- Formalin

IVD	A0564	Ammonium sulphate fraction	1 mL
IVD	IR002	RTU*, FLEX	60 tests, 12 mL▲
IVD	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.

- ◆ 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

Primary Antibodies (continued)

Polyclonal Rabbit Anti-Human Kappa Light Chains

- Frozen • Formalin • Enzyme/HIER

IVD	A0191	Ig fraction	2 mL
IVD	F0198	FITC. Ig fraction	2 mL
IVD	GA506	RTU*, FLEX	60 tests, 12 mL♦
IVD	IR506	RTU*, FLEX	60 tests, 12 mL▲
IVD	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.



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

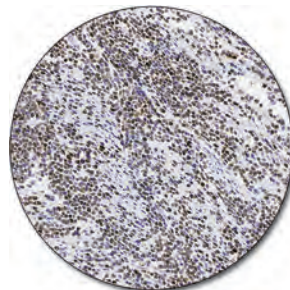
- Frozen • Formalin • HIER

IVD	M7240	Culture supernatant	0.2 mL/1 mL
IVD	GA626	RTU*, FLEX	60 tests, 12 mL♦
IVD	IR626	RTU*, FLEX	60 tests, 12 mL▲
IVD	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 (G₁, S, G₂ and M-phases), but absent in resting cells (G₀-phase). The antibody is a useful aid for classification of a variety of tumors.

References:

- 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.
- 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.
- 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 (G₁, S, G₂ and M phases), but absent in resting (G₀) cells.

L523S Protein

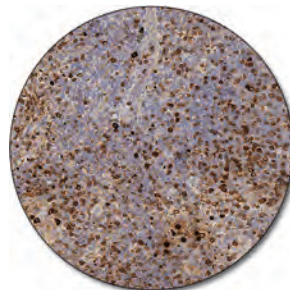
See: IMP3

Polyclonal Rabbit Anti-Human Lambda Light Chains

- Frozen • Formalin • Enzyme/HIER

IVD	A0193	Ig fraction	2 mL
IVD	F0199	FITC. Ig fraction	2 mL
IVD	GA507	RTU*, FLEX	60 tests, 12 mL♦
IVD	IR507	RTU*, FLEX	60 tests, 12 mL▲
IVD	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.

♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human

Laminin

Clone: 4C7

Isotype: IgG2a, kappa

● Frozen ● Formalin ● Enzyme

IVD 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.

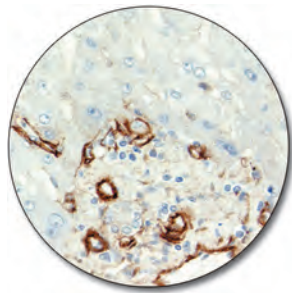
Polyclonal Rabbit Anti-

Laminin

● Frozen ● Formalin ● Enzyme

IVD 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

IVD 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 $\gamma 2$ chain. This antibody is specific for the $\gamma 2$ 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 $\gamma 2$ 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

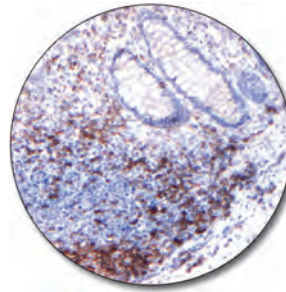
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD 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

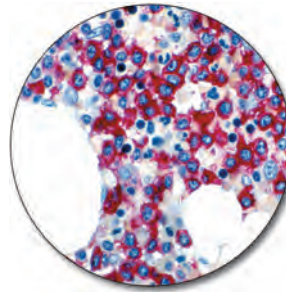
Clone: DBA.44

Isotype: IgM, kappa

● Frozen ● Formalin ● (Enzyme)/HIER

IVD 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

IVD 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

IVD 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.

Primary Antibodies (continued)

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

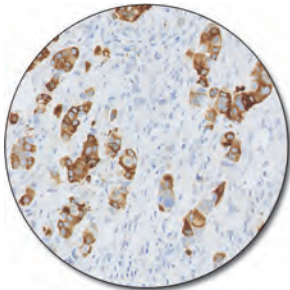
- Frozen • Formalin • HIER

IVD M3625 Culture supernatant 0.2 mL
IVD GA074 RTU*, FLEX **NEW** 60 tests, 12 mL♦
IVD IR074 RTU*, FLEX 60 tests, 12 mL▲
IVD 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-mammaglobin 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.

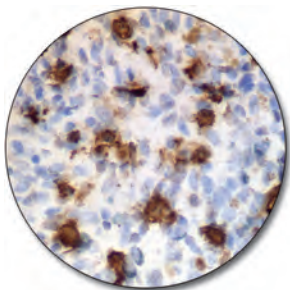
Monoclonal Mouse Anti-Human **Mast Cell Tryptase**

Clone: AA1
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD M7052 Culture supernatant 0.2 mL
IVD IR640 RTU*, FLEX 60 tests, 12 mL▲
IVD 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

IVD 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

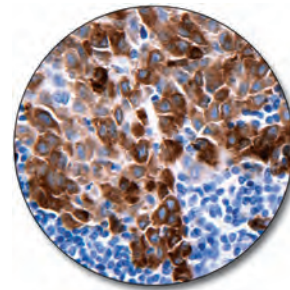
- Frozen • Formalin • HIER

IVD M7196 Culture supernatant 0.2 mL/1 mL
IVD IR633 RTU*, FLEX 60 tests, 12 mL▲
IVD 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, Elyahu 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 71

- ♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human

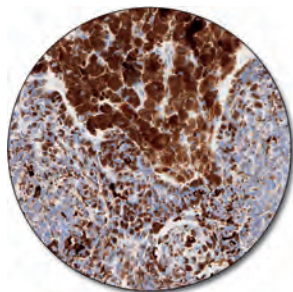
Melanosome

Clone: HMB-45
Isotype: IgG1, kappa

● Frozen ● Formalin ● Enzyme/HIER

IVD M0634 Culture supernatant	0.2 mL/1 mL
IVD GA052 RTU*, FLEX	60 tests, 12 mL♦
IVD IR052 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

IVD M3505 Culture supernatant	1 mL
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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. HBME-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

IVD M0639 Ascites	1 mL
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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

IVD M3621 Culture supernatant	0.2 mL
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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

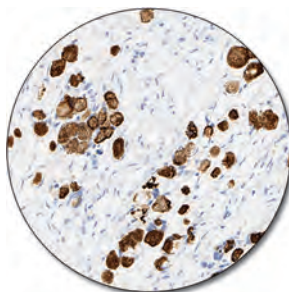
● Formalin ● HIER

IVD M7313 Culture supernatant	0.2 mL/1 mL
IVD 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human **MUC5AC**

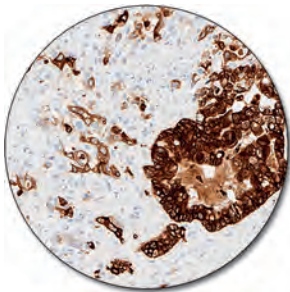
Clone: CLH2
Isotype: IgG1, kappa

• Formalin • HIER

IVD M7316 Culture supernatant 0.2 mL/1 mL
IVD 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

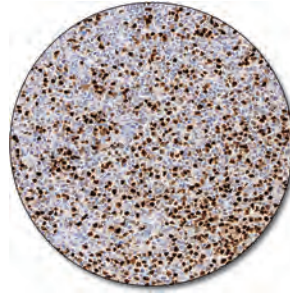
• Frozen • Formalin • HIER

IVD M7259 Culture supernatant 0.2 mL/1 mL
IVD GA644 RTU*, FLEX 60 tests, 12 mL◆
IVD IR644 RTU*, FLEX 60 tests, 12 mL▲
IVD 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.

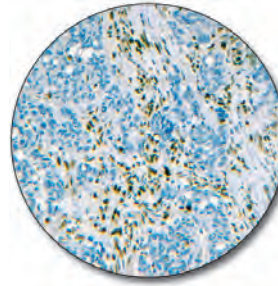
Monoclonal Mouse Anti-Human **MutL Protein Homolog 1**

Clone: ES05
Isotype: IgG1

• Formalin • HIER

IVD M3640 Culture supernatant 0.2 mL/1 mL
IVD IR079 RTU*, FLEX 60 tests, 12 mL▲
IVD 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

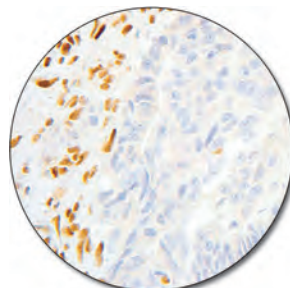
• Formalin • HIER

IVD M3639 Ascites, protein A purified 0.2 mL/1 mL
IVD 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.

Reference:

1. Peltomäki P. Role of DNA mismatch repair defects in the pathogenesis of human cancer. *J Clin Oncol* 2003;21:1174-9.



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

Primary Antibodies (continued)

Monoclonal Rabbit Anti-Human MutS Protein Homolog 6

Clone: EP49

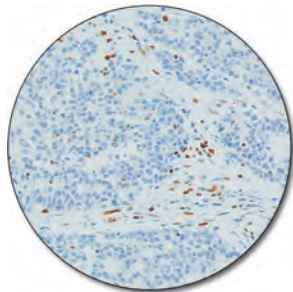
- Formalin ● HIER

IVD M3646 Affinity-isolated 0.2 mL/1 mL
IVD 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 are a useful aid for classification of tumors of the gastrointestinal tract, including associated extracolonic cancers

Reference:

1. Peltomäki P. Role of DNA mismatch repair defects in the pathogenesis of human cancer. *J Clin Oncol* 2003;21:1174-9.



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

Polyclonal Rabbit Anti-Human Myelin Basic Protein

- Formalin

IVD 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)

IVD 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 calcium-binding proteins: functions and pathology. *Trends Biochem Sci* 1996;21:134-40.

Polyclonal Rabbit Anti-Human Myeloperoxidase

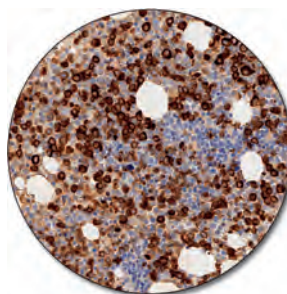
- Formalin ● Enzyme/HIER

IVD A0398 Ig fraction 0.2 mL
IVD GA511 RTU*, FLEX 60 tests, 12 mL♦
IVD IR511 RTU*, FLEX 60 tests, 12 mL▲
IVD 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

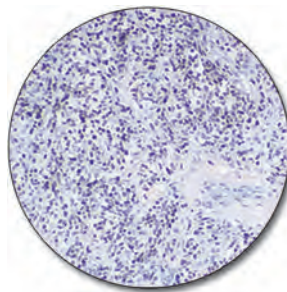
- Frozen ● Formalin ● HIER

IVD 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

Primary Antibodies (continued)

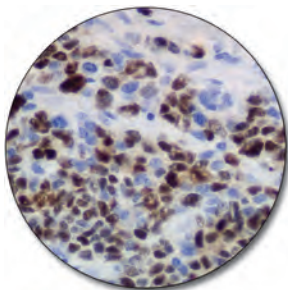
Monoclonal Mouse Anti-Myogenin

Clone: F5D
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD M3559 Ig fraction of culture supernatant	1 mL
IVD IR067 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

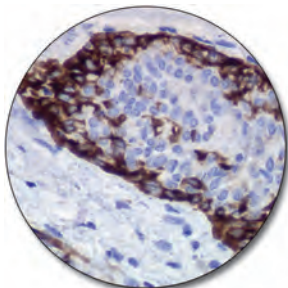
Monoclonal Mouse Anti-Human Myosin Heavy Chain (Smooth Muscle)

Clone: SMMS-1
Isotype: IgG1, kappa

- Frozen • Formalin • Enzyme + HIER

IVD M3558 Culture supernatant	1 mL
IVD IR066 RTU*, FLEX	60 tests, 12 mL▲
IVD 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

IVD M3613 Culture supernatant	1 mL
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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.

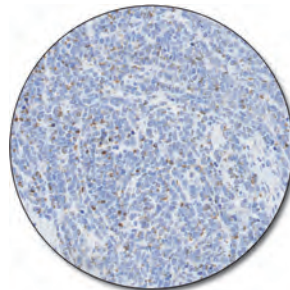
Monoclonal Mouse Anti-Human Neurofilament Protein

Clone: 2F11
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD M0762 Culture supernatant	0.2 mL
IVD GA607 RTU*, FLEX NEW	60 tests, 12 mL◆
IVD IR607 RTU*, FLEX	60 tests, 12 mL▲
IVD 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)

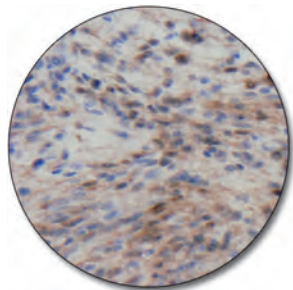
Clone: BBS/NC/VI-H14
Isotype: IgG1, kappa

- Formalin • HIER

IVD M0873 Culture supernatant	0.2 mL/1 mL
IVD IR612 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

- ◆ 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



Schwannoma (FFPE) stained with FLEX Anti-Neuron-Specific Enolase, Code IR612/IS612.

Neutrophil Elastase

Clone: NP57
Isotype: IgG1, kappa

- Frozen ● Formalin

IVD 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.

Nucleophosmin

Clone: 376
Isotype: IgG1, lambda

- Formalin ● HIER

IVD M7305 Culture supernatant 1 mL

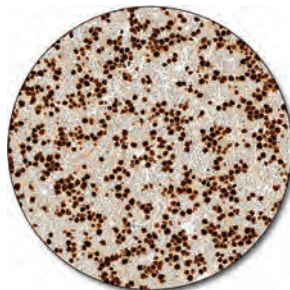
IVD GA652 RTU*, FLEX 60 tests, 12 mL♦

IVD 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 myelogenous 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.

Octamer-Binding Transcription Factor 3/4

Clone: N1NK
Isotype: IgG1, kappa

- Formalin ● HIER

IVD M3649 Culture supernatant 0.2 mL/1 mL

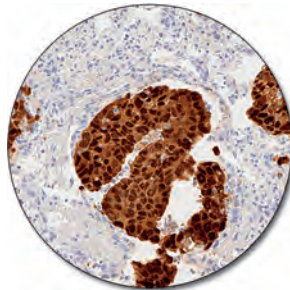
IVD IR092 RTU*, FLEX 60 tests, 12 mL▲

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.

♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human p21^{WAF1/Cip1}

Clone: SX118

Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD 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

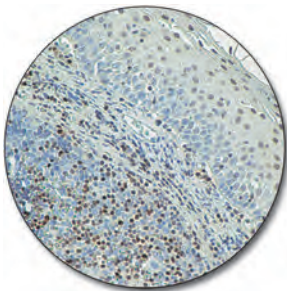
● Formalin ● HIER

IVD M7203 Culture supernatant 1 mL

p27^{Kip1}, a cyclin-dependent kinase (cdk) inhibitor, regulates progression from G₁ 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.



Tonsil (FFPE) stained with Anti-p27^{Kip1}, Code M7203.

Monoclonal Mouse Anti-Human p53 Protein

Clone: DO-7

Isotype: IgG2b, kappa

● Frozen ● Formalin ● HIER

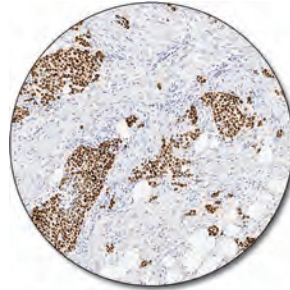
IVD M7001 Culture supernatant 0.2 mL/1 mL

IVD GA616 RTU*, FLEX 60 tests, 12 mL♦

IVD IR616 RTU*, FLEX 60 tests, 12 mL▲

IVD 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

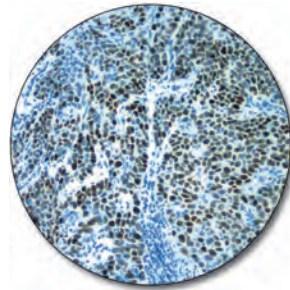
● Frozen ● Formalin ● HIER

IVD 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.

P501S

See: Prostein

P504S

See: AMACR

Monoclonal Mouse Anti-Human Papillomavirus (HPV)

Clone: K1H8

Isotype: IgG1, kappa

ASR 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.

♦ 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

Primary Antibodies (continued)

Polyclonal Rabbit Anti- PGP 9.5

- Formalin • HIER

IVD 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

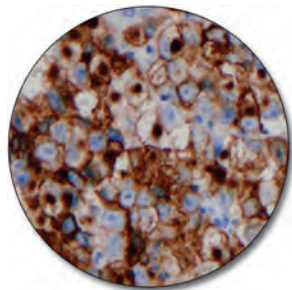
- Formalin • HIER

IVD M7191 Culture supernatant 0.2 mL/1 mL

IVD IR779 RTU*, FLEX 60 tests, 12 mL▲

IVD 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 Podoplanin

Clone: D2-40
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD M3619 Culture supernatant 0.2 mL/1 mL

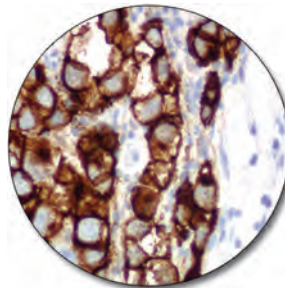
IVD IR072 RTU*, FLEX 60 tests, 12 mL▲

IVD 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/IS072.

Dako FLEX RTU Antibodies for Reproductive System Testing

See our panel of FLEX antibodies at page 69

Dako FLEX RTU Antibodies for Respiratory System Testing

See our panel of FLEX antibodies at page 70

Monoclonal Mouse Anti-Human Plasma Cell

Clone: VS38c
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD 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 Rabbit Anti-Human Postmeiotic Segregation Increased 2

Clone: EP51

- Formalin • HIER

IVD M3647 Affinity isolated 0.2 mL/1 mL

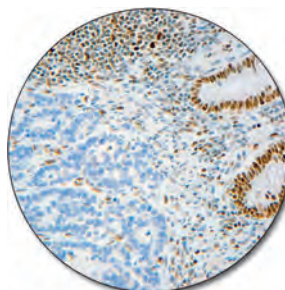
IVD IR087 RTU*, FLEX 60 tests, 12 mL▲

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.

Reference:

1. Peltomäki P. Role of DNA mismatch repair defects in the pathogenesis of human cancer. *J Clin Oncol* 2003;21:1174-9.



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

▲ 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

Primary Antibodies (continued)

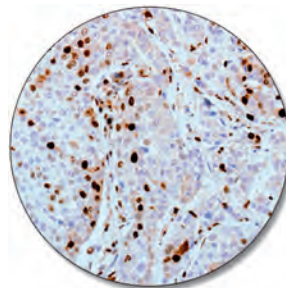
Monoclonal Mouse Anti-Human Progesterone Receptor

Clone: PgR 636
Isotype: IgG1, kappa

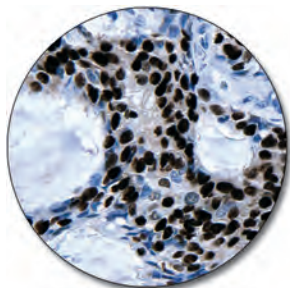
• Formalin • HIER

IVD M3569 Culture supernatant 0.2 mL/1 mL
IVD IR068 RTU*, FLEX 60 tests, 12 mL▲

Labels the nuclei of cells known to contain a high level of progesterone receptor. This is, e.g., normal, hyperplastic and neoplastic cells of the mammary gland as well as epithelial and myometrial cells of the uterus.



Breast carcinoma (FFPE) stained with Anti-Proliferating Cell Nuclear Antigen.



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

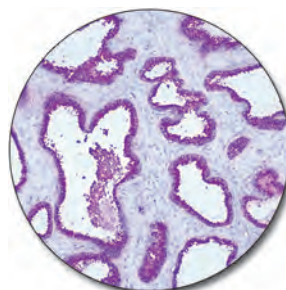
Monoclonal Mouse Anti-Human Prostate-Specific Antigen (PSA)

Clone: ER-PR8
Isotype: IgG1, kappa

• Frozen • Formalin • Enzyme/HIER

IVD 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.

Monoclonal Mouse Anti-Human Progesterone Receptor

Clone: PgR 1294
Isotype: IgG1, kappa

• Formalin

IVD M3568 Culture supernatant 1 mL

Human progesterone receptor belongs to a family of ligand-dependent nuclear receptors which function as transcription factors, mediating the growth of target tissues. The antibody recognizes the A and B forms of the receptor.

Polyclonal Rabbit Anti-Human Prolactin

• Frozen • Formalin

IVD 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

IVD 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:

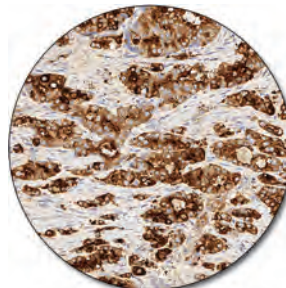
1. Roos G, Landberg G, Huff JP, Houghten R, Takasaki Y, Tan EM. Analysis of the epitopes of proliferating cell nuclear antigen recognized by monoclonal antibodies. *Lab Invest* 1993;68:204-10.
2. Bromley M, Rew D, Beccioli A, Balzi M, Chadwick C, Hewitt D, et al. A comparison of proliferation markers (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.

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

• Formalin

IVD A0562 Ig fraction 1 mL
IVD GA514 RTU*, FLEX 60 tests, 12 mL♦
IVD IR514 RTU*, FLEX 60 tests, 12 mL▲
IVD 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 periurethral 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.

Dako FLEX RTU Antibodies for Prostate 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human

Prostate-Specific Membrane Antigen (PSMA)

Clone: 3E6

Isotype: IgG1, kappa

● Formalin ● HIER

IVD M3620 Culture supernatant

0.2 mL/1 mL

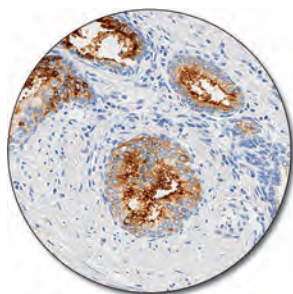
IVD IR089 RTU*, FLEX

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

IVD 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

IVD M3615 Culture supernatant

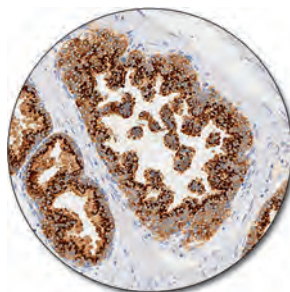
0.2 mL/1 mL

IVD 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) (FFPE) stained with FLEX Anti-Prostein, Code IR088.

Monoclonal Mouse Anti-Human

PTEN

Clone: 6H2.1

Isotype: IgG2a, kappa

● Frozen ● Formalin ● HIER

IVD 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

IVD M3632 Culture supernatant

1 mL

IVD GA075 RTU*, FLEX **NEW**

60 tests, 12 mL♦

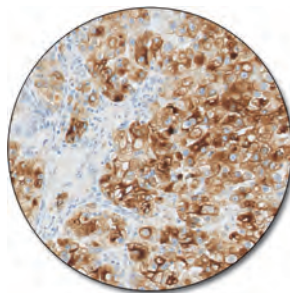
IVD IR075 RTU*, FLEX

60 tests, 12 mL▲

IVD 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.

♦ 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

Primary Antibodies (continued)

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

IVD Z0311 Ig fraction 0.2 mL/1 mL
IVD GA504 RTU*, FLEX 60 tests, 12 mL♦
IVD IR504 RTU*, FLEX 60 tests, 12 mL▲
IVD 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, ependyomas as well as in different grades of astroglomas, 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

IVD 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

IVD 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.

Monoclonal Mouse Anti-Human Survivin

Clone: 12C4
Isotype: IgG2a, kappa

● Formalin ● HIER

IVD 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, pheochromocytoma, 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

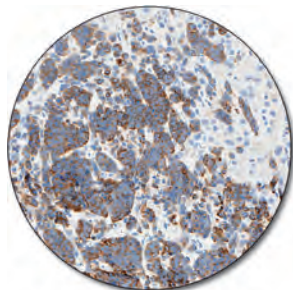
IVD M7315 Culture supernatant 0.2 mL/1 mL
IVD IR660 RTU*, FLEX 60 tests, 12 mL▲

Synaptophysin is a 38 kDa membrane glycoprotein expressed in neuroendocrine cells and neurons involved in transmission via synaptic vesicles. Results aid in the classification of neuroendocrine neoplasms, such as neuroendocrine lung tumors (e.g. carcinoid, atypical carcinoid, SCLC, LCNEC and non-small cell lung cancer), neuroendocrine tumors of the gastroenteropancreatic 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.

♦ 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



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 68](#)

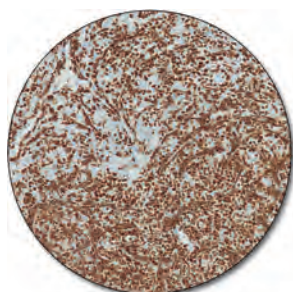
Monoclonal Rabbit Anti-Human Terminal Deoxynucleotidyl Transferase (TdT)

Clone: EP266

- Formalin ● HIER

IVD M3651 Culture supernatant 1 mL
 IVD 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

IVD 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:

- 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

IVD 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

IVD M0781 Culture supernatant 1 mL

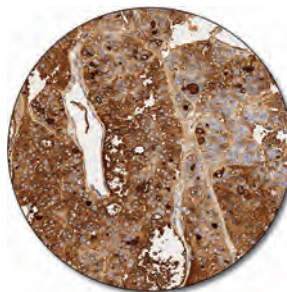
Reacts with cells in thyroid tissue. The antibody is a useful aid for classification of thyroid carcinomas.

Polyclonal Rabbit Anti-Human Thyroglobulin

- Frozen ● Formalin

IVD A0251 Ig fraction 2 mL
 IVD GA509 RTU*, FLEX 60 tests, 12 mL◆
 IVD IR509 RTU*, FLEX 60 tests, 12 mL▲
 IVD 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.

◆ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Human Thyroid Peroxidase (TPO)

Clone: MoAb47
Isotype: IgG1, kappa

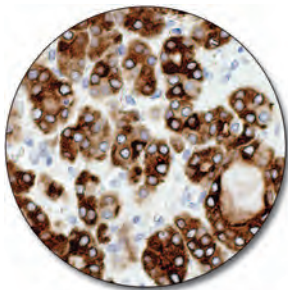
- Frozen • Formalin • HIER

IVD M7257 Culture supernatant 0.2 mL

Thyroid peroxidase (TPO) is present as a dimer on the apical surface of thyroid follicular 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:

- 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

IVD 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.

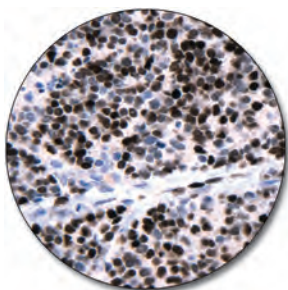
Monoclonal Mouse Anti- Thyroid Transcription Factor (TTF-1)

Clone: 8G7G3/1
Isotype: IgG1, kappa

- Frozen • Formalin • HIER

IVD M3575 Culture supernatant 0.2 mL/1 mL
IVD IR056 RTU*, FLEX 60 tests, 12 mL▲
IVD 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 small 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

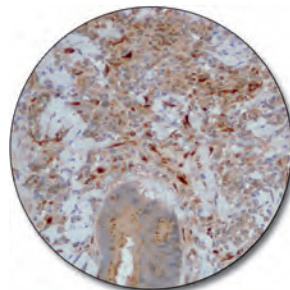
- Formalin • HIER

IVD 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:

- Sørensen IV, Winther H, Foged NT, Fenger C, Brüner N. Tissue inhibitor of metalloproteinases 1 (TIMP-1) as an immunohistochemical marker for colorectal cancer. *Eur J Cancer Supplements* 2005;3:196.
- Sørensen IV, Fenger C, Winther H, Foged NT, Lademann U, Brüner 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.
- Fassina G, Ferrari N, Brigati C, Benelli R, Santi L, Noonan DM, et al. Tissue inhibitors of metalloproteinases: regulation and biological activities. *Clin Exp Metastasis* 2000;18:111-20.



Colon adenocarcinoma (FFPE) stained with Anti-TIMP-1, Code M7293.

Monoclonal Mouse Anti-Human Topoisomerase II α

Clone: Ki-S1
Isotype: IgG2a, kappa

- Frozen • Formalin • HIER

IVD 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 II α isoform is a 170 kDa nuclear protein that is only expressed in proliferating cells.

Monoclonal Mouse Anti-Human Tyrosinase

Clone: T311
Isotype: IgG2a, kappa

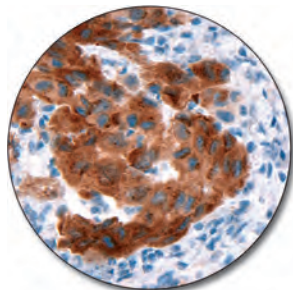
- Formalin • HIER

IVD M3623 Culture supernatant 0.2 mL
IVD IR061 RTU*, FLEX 60 tests, 12 mL▲
IVD 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.

▲ 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

Primary Antibodies (continued)



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

Monoclonal Mouse Anti-Human uPAR

Clone: R4
Isotype: IgG1, kappa

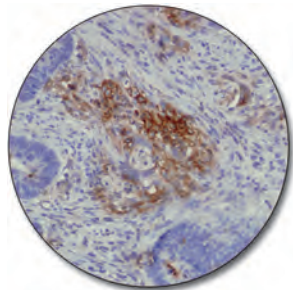
● Frozen ● Formalin ● HIER

IVD 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.

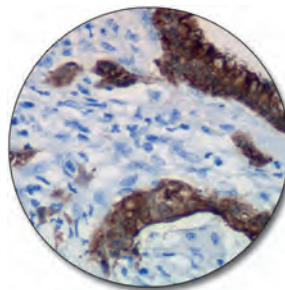
Monoclonal Mouse Anti-Villin

Clone: 1D2 C3
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD M3637 Culture supernatant	1 mL
IVD IR076 RTU*, FLEX	60 tests, 12 mL▲
IVD IS076 RTU*, FLEX	30 tests, 6 mL△

Villin is a 95 kDa calcium-regulated, actin-binding protein that plays a role in 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 65

Monoclonal Mouse Anti-Vimentin

Clone: V9
Isotype: IgG1, kappa

● Frozen ● Formalin ● HIER

IVD M0725 Culture supernatant	0.2 mL/1 mL
IVD GA630 RTU*, FLEX	60 tests, 12 mL♦
IVD IR630 RTU*, FLEX	60 tests, 12 mL▲
IVD 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.

- ♦ 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

Primary Antibodies (continued)

Monoclonal Mouse Anti-Vimentin

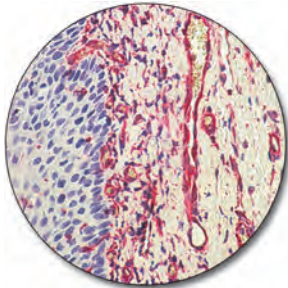
Clone: Vim 3B4

Isotype: IgG2a, kappa

- Frozen • Formalin • Enzyme/HIER

IVD 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

IVD 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

IVD A0082 Ig fraction 0.2 mL/2 mL

IVD GA527 RTU*, FLEX 60 tests, 12 mL♦

IVD IR527 RTU*, FLEX 60 tests, 12 mL▲

IVD 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. Makhlof 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

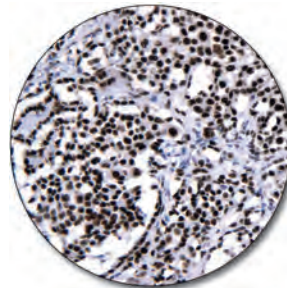
- Frozen • Formalin • Enzyme

IVD M3561 Culture supernatant 1 mL

IVD IR055 RTU*, FLEX 60 tests, 12 mL▲

IVD 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 71

Monoclonal Mouse Anti-Human ZAP-70**

Clone: 2F3.2

Isotype: IgG2a, kappa

- Frozen • Formalin • HIER

IVD M7303 Culture supernatant 1 mL

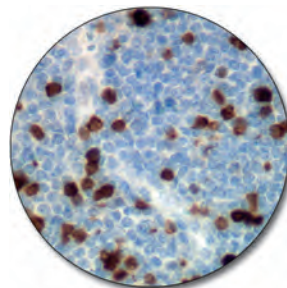
IVD IR653 RTU*, FLEX 60 tests, 12 mL▲

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 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

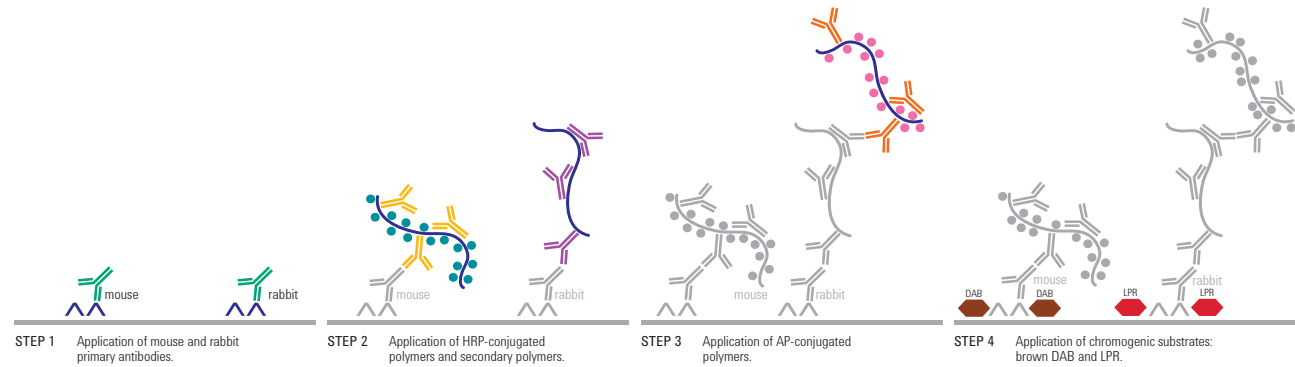
Antibody Cocktails

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.



DuoFLEX Cocktail

Anti-AMACR
Anti-Cytokeratin HMW
Anti-Cytokeratin 5/6

● Formalin ● HIER

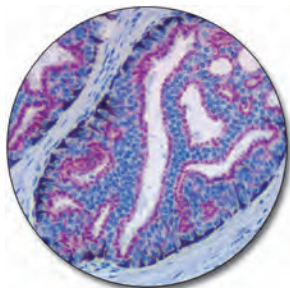
IVD IC004 Antibody Cocktail▲

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:

- 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

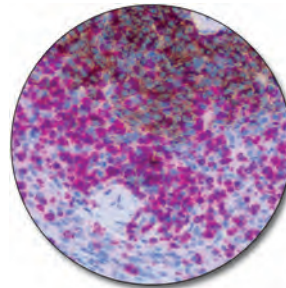
Anti-CD3
Anti-CD20cy

● Formalin ● HIER

IVD 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 classification of related 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

Antibody Cocktails (continued)

DuoFLEX Cocktail

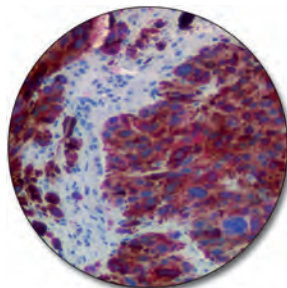
Anti-S100
Anti-Tyrosinase
Anti-Melan-A

• Formalin • HIER

IVD 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

IVD 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-

Escherichia Coli

● Precipitation ● Blot

IVD 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

Fibrinogen

● Precipitation ● IHC

IVD 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

IVD 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

IVD A0262 Ig fraction 1 mL

IVD F0204 FITC. 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 antigen used for immunization is serum IgA.

Polyclonal Rabbit Anti-Human

IgA, IgG, IgM, Kappa, Lambda

● ELISA ● IHC

IVD F0200 FITC. Ig fraction 2 mL

IVD P0212 HRP. Ig fraction 2 mL

F0200 is very well-suited for the fluorescent 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

IVD A0423 Ig fraction 1 mL

IVD D0336 AP. Affinity isolated 1 mL

IVD F0202 FITC. Ig fraction 2 mL

IVD F0315 FITC. F(ab')₂ 1 mL

IVD 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

IVD A0425 Ig fraction 1 mL

IVD F0203 FITC. Ig fraction 2 mL

IVD 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.

Polyclonal Rabbit Anti-Human

Kappa Light Chains

● Precipitation ● Blot ● ELISA ● IHC

IVD A0191 Ig fraction 2 mL

IVD 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.

Multipurpose Antibodies (continued)

Polyclonal Rabbit Anti-Human

Lambda Light Chains

● Precipitation ● Blot ● ELISA ● IHC

IVD A0193 Ig fraction 2 mL

IVD 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

IVD 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

IVD A0251 Ig fraction 2 mL

The antigen used for the production of A0251 has been isolated from normal human thyroids. The antibody has been made specific for thyroglobulin by absorption with insolubilized human serum.

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.

Polyclonal Rabbit Anti-

Goat Immunoglobulins

IVD	F0250	FITC. Ig fraction	2 mL
IVD	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

IVD	E0466	Biotin. Affinity isolated	1 mL
IVD	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

IVD	P0141	HRP. Ig fraction	2 mL
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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

IVD	Z0420	Affinity isolated	1 mL
IVD	D0486	AP. Affinity isolated	2 mL
IVD	E0433	Biotin. Affinity isolated	1 mL
IVD	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.

Further Information

A package insert with detailed product description and guidelines for dilutions accompanies all Dako secondary antibodies.

Polyclonal Rabbit Anti-

Mouse Immunoglobulins

	F0232	FITC. Ig fraction	2 mL
IVD	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

IVD	Z0259	Ig fraction	2 mL
IVD	D0314	AP. Affinity isolated	2 mL
IVD	E0354	Biotin. Affinity isolated	1 mL
IVD	E0413	Biotin. Affinity-isolated F(ab') ₂	1 mL
IVD	F0261	FITC. Ig fraction	2 mL
IVD	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

IVD	D0487	AP. Affinity isolated	1 mL
	E0432	Biotin. Affinity isolated	1 mL
IVD	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

IVD 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

IVD Z0196 Ig fraction 2 mL

IVD D0306 AP. Affinity isolated 1 mL

IVD E0353 Biotin. Affinity isolated 1 mL

IVD E0431 Biotin. Affinity-isolated F(ab')₂ 1 mL

IVD F0205 FITC. Affinity isolated 2 mL

IVD P0217 HRP. Ig fraction 2 mL

IVD P0399 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.

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

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

IVD 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.

Goat Serum (Normal)

RUO X0907 Whole serum 10 mL

Mouse IgG1

IVD 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

IVD 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

IVD 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

IVD 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.

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)

IVD 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.

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.

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

IVD 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

IVD 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

IVD 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

IVD 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

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

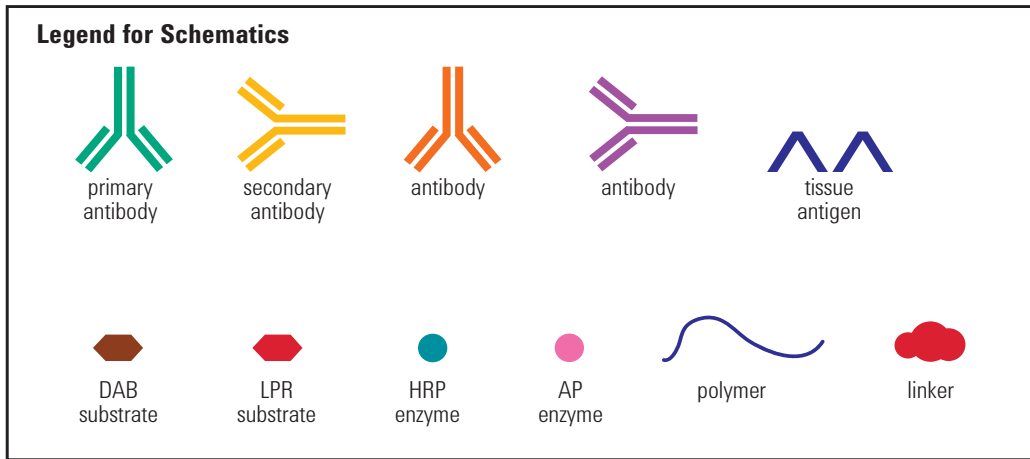
Universal negative control for all FLEX ready-to-use **mouse** primary antibodies for use on Dako Autostainer Instruments. Packaged in Dako Autostainer Vial.

Universal Negative Control for IS-Series Rabbit Primary Antibodies

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

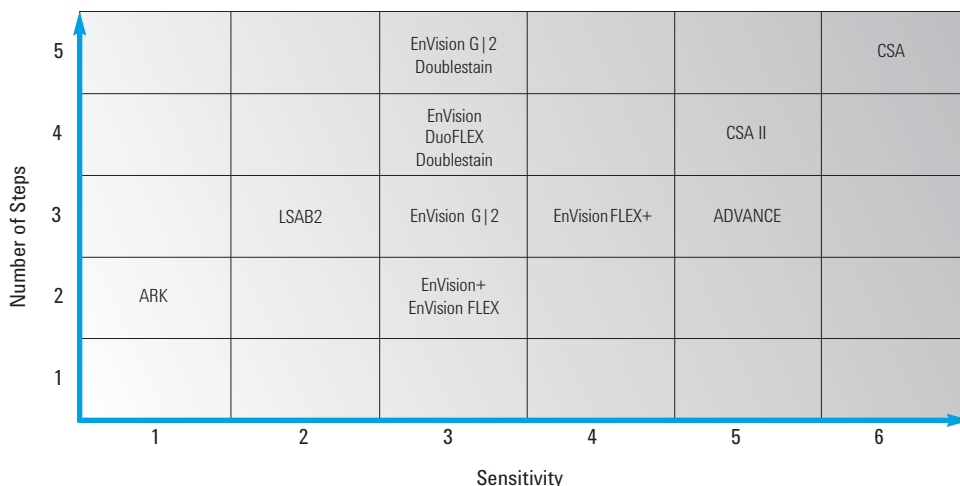
Universal negative control to all FLEX ready-to-use **rabbit** primary antibodies for use on Dako Autostainer Instruments. Packaged in Dako Autostainer Vial.

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 2	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	GV800 + GV805 (Low pH TRS)	GV800 + GV821 (Mouse LINKER)	GV800 + GV805 + GV821
	or GV823	or GV823 + GV805 (Low pH TRS)	or GV800 + GV809 (Rabbit LINKER)	or GV800 + GV805 + GV809

Autostainer Link 48

EnVision FLEX Systems				
	FLEX High pH	FLEX Low pH	FLEX+ High pH	FLEX+ Low pH
Code	K8000	K8000 + K8005 (Low pH TRS)	K8002 (incl. Mouse LINKER)	K8002 + K8005
	or K8023	or K8023 + K8005 (Low pH TRS)	or K8002 + K8009 (Rabbit LINKER)	or K8002 + K8005 + K8009

Dako Autostainer/Autostainer Plus

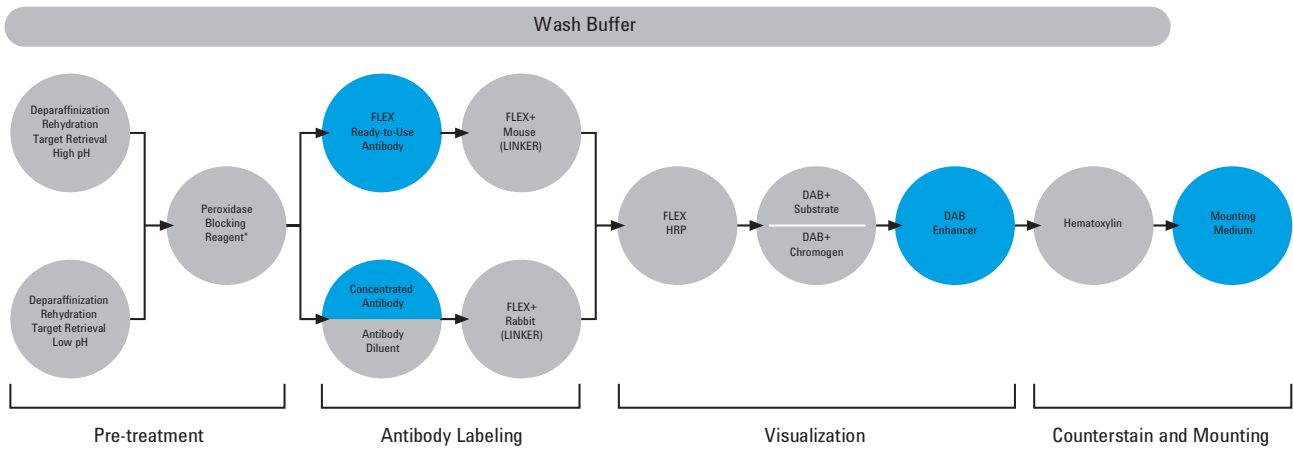
EnVision FLEX Systems				
	FLEX High pH	FLEX Low pH	FLEX+ High pH	FLEX+ Low pH
Code	K8010	K8010 + K8005	K8012 (incl. Mouse LINKER)	K8012 (incl. Mouse LINKER) + K8005
	or K8024	or K8024 + K8005	or K8012 + K8009 (Rabbit LINKER)	or K8012 + K8005 + K8009 (Rabbit LINKER)

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

■ EnVision FLEX Systems ■ Other Reagents



* Onboard Dako Omnis, the blocking step is performed after primary antibody incubation.

Possibilities

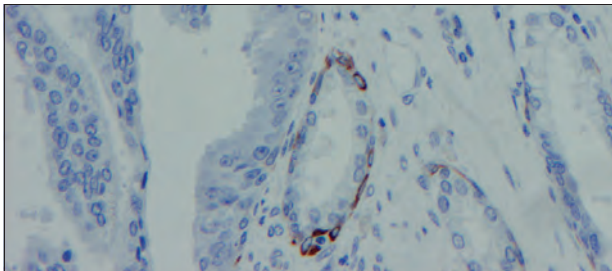
- Sensitivity options for both high sensitivity staining with EnVision FLEX and very-high sensitivity staining with EnVision FLEX+
- Kit components and reagent options create a complete and high quality IHC Solution built upon the proven performance of Dako's EnVision visualization technology platform
- One code number orders the majority of reagents needed to complete a visualization run which ensures that reagents are optimized for use together

Benefits

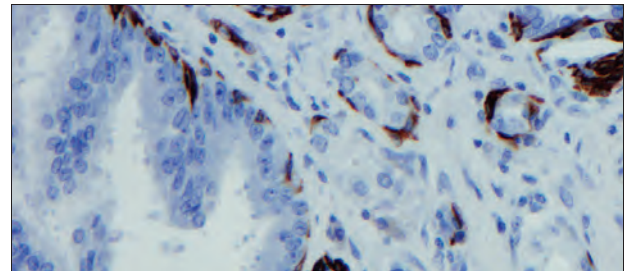
- Offers an integrated solution
- Consistent and documented pre-treatment process
- Reliable, quality reagents with protocols created to optimize laboratory efficiency
- Link software data management capabilities combined with predetermined number of tests for all FLEX kits and options frees personnel 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.



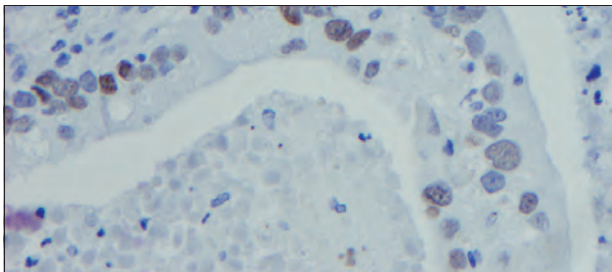
EnVision FLEX with Low pH, 1:25 Ab dilution.



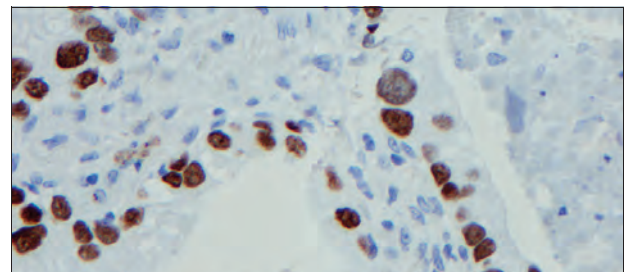
EnVision FLEX with High pH, 1:25 Ab dilution. Notice the increased staining intensity using high pH pre-treatment.

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

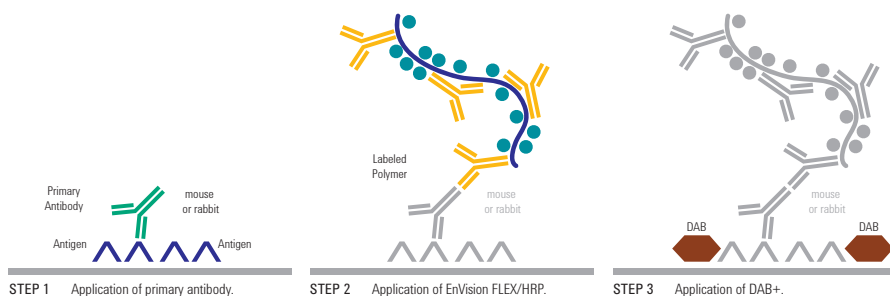
EnVision FLEX and FLEX+ Visualization Systems gives you high-quality reagents packaged in easy-to-choose-and-use kit configurations. Simply pick one of the Convenience Kits, add any of the optional reagents, and you have an IHC visualization solution that satisfies the modern pathology laboratory's complex 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,

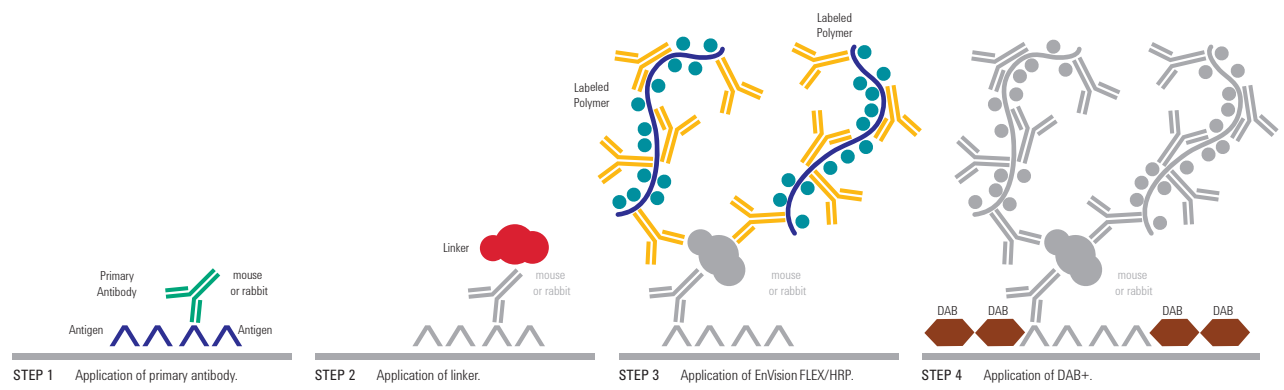
also carries secondary antibody molecules. Endogenous biotin will not affect EnVision FLEX staining results.

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.

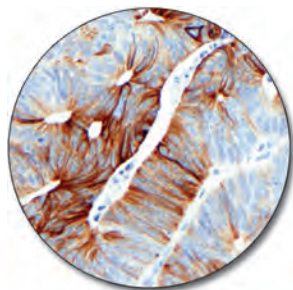
EnVision FLEX System



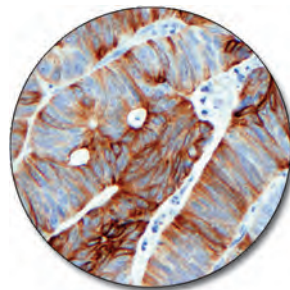
EnVision FLEX+ System



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 K₂₀.8 (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 K₂₀.8 (Code M7019) applied on colon adenocarcinoma.

Dako Omnis

**EnVision FLEX, High pH
(Dako Omnis)**

IVD 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)**

IVD 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)**

IVD 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.

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)**

IVD 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.

**EnVision FLEX Mini Kit, High pH
(Link)**

IVD 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,

Dako Autostainer/Autostainer Plus

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

IVD 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.

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)**

IVD 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 Mini Kit, High pH
(Dako Autostainer/Autostainer Plus)**

IVD 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,

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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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

IVD 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

IVD 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

IVD 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)

IVD 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)

IVD 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)

IVD 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

IVD 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

IVD 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

IVD 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

IVD 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

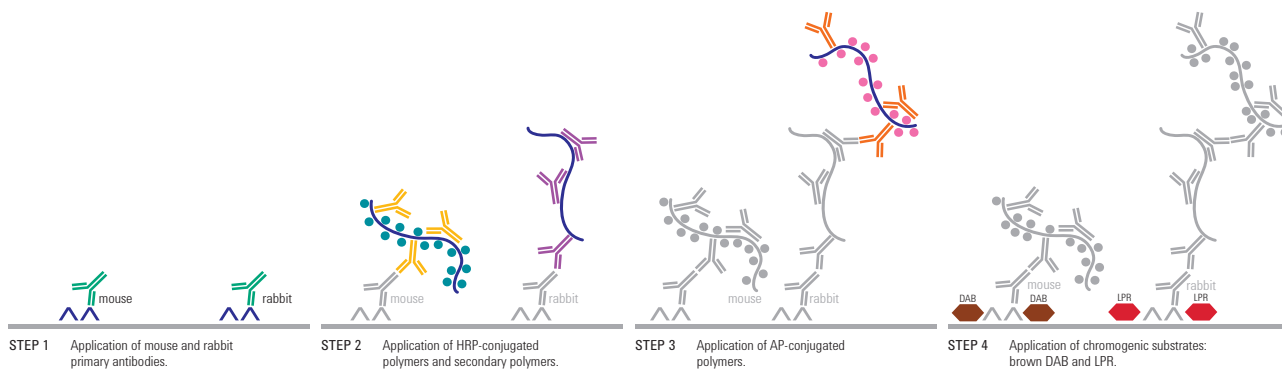
IVD K8020 Coated glass slides 5 x 100 slides
Coated microscope slides for adhesion of formalin-fixed, paraffin-embedded tissue sections for use in immunohistochemistry with Dako EnVision FLEX visualization systems. FLEX IHC Microscope Slides are compatible with, but not limited to, the following Dako 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.



EnVision DuoFLEX Doublestain System

IVD 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

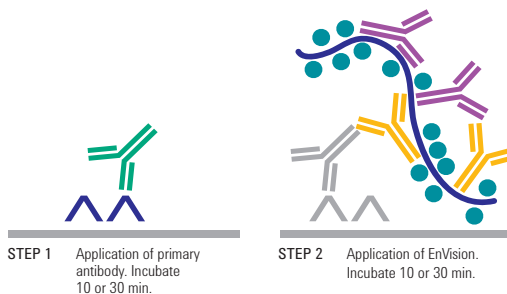
EnVision Systems

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.



EnVision G | 2 Doublestain System

Rabbit/Mouse (DAB+ / Permanent Red)

IVD 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)

IVD 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

IVD K4004 HRP. Mouse (AEC+)	150 tests
IVD K4005 HRP. Mouse (AEC+)	1100 tests
IVD K4006 HRP. Mouse (DAB+)	150 tests
IVD K4007 HRP. Mouse (DAB+)	1100 tests
IVD K4008 HRP. Rabbit (AEC+)	150 tests
IVD K4009 HRP. Rabbit (AEC+)	1100 tests
IVD K4010 HRP. Rabbit (DAB+)	150 tests
IVD 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 Kit

IVD K4065 HRP. Rabbit/Mouse (DAB+) 150 tests

This ready-to-use, peroxidase-based EnVision+ Dual Link Kit is compatible with suitably diluted rabbit and mouse primary antibodies. In addition to the ready-to-use EnVision+ Dual Link reagent, the kit includes a blocking reagent for endogenous peroxidase and a high-sensitivity diaminobenzidine (DAB+) chromogenic substrate system. The kit is provided with detailed instructions.

EnVision+ Dual Link, Single Reagents

IVD K4063 HRP. Rabbit/Mouse 150 tests, 15 mL
IVD 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

IVD K4000 HRP. Mouse 150 tests, 15 mL
IVD K4001 HRP. Mouse 1100 tests, 110 mL
IVD K4002 HRP. Rabbit 150 tests, 15 mL
IVD 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 and LSAB2.

ADVANCE

IVD	K4069	HRP. Rabbit/Mouse	55 tests, 11 mL
IVD	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 μ L of reagent per slide.

ARK (Animal Research Kit) Peroxidase

RUO	K3954		150 tests
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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 μ L of reagent per slide. The kit is provided with detailed instructions.

The ARKulator is recommended for automatic calculation of reagent volumes required for preparation of primary antibodies. Download ARKulator for free from our Web site.

CSA, Catalyzed Signal Amplification System

IVD	K1500		150 tests
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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 μ L 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

IVD	K1497		150 tests, 15 mL
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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 μ L of reagent per slide. The kit is provided with detailed instructions.

CSA II Rabbit Link

IVD	K1501		150 tests, 15 mL
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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 μ L of reagent per test.

LSAB2 Kits, Universal

IVD	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

IVD	P0397	HRP	1 mL
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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

IVD 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

IVD K3461 Ready-to-use 150 tests, 15 mL

IVD 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

IVD 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 Enhancer

IVD S1961 30 mL/110 mL

DAB Enhancer is a ready-to-use enhancement reagent for DAB chromogens. It can be used as an auxiliary automated step on the Dako Autostainer instruments for richer, chocolate-brown DAB results.

DAB+, Liquid

IVD K3467 150 tests, 15 mL

IVD 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

IVD 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.

New Fuchsin Substrate System

K0698 1750 tests

Intended for immunohistochemical staining procedures when alkaline phosphatase is the enzyme label. The New Fuchsin Substrate System is especially useful on tissue sections. The number of tests is based on the use of 100 µL of reagent per slide.

Permanent Red

K0695 10 tablets, 30 mL

Intended for both immunohistochemical and in situ hybridization staining procedures when alkaline phosphatase is the enzyme label. Permanent Red is a Fast Red chromogen that yields a vibrant, red-colored, permanent reaction product at the site of the target antigen or nucleic acid. It can be dehydrated in alcohol, xylene or xylene substitutes and permanently mounted with an organic mounting medium while maintaining a vibrant staining result.

Permanent Red Substrate-Chromogen, Liquid

IVD 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

IVD 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, Background Reducing

IVD 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.

Blocking Reagents, Buffers, Diluents (continued)

Biotin-Blocking System

IVD 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.

Levamisole Solution

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

IVD 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

IVD 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

IVD X0909 110 mL

For blocking non-specific background staining in immunohistochemical procedures. Is compatible with all primary and secondary antibodies regardless of species.

Target Retrieval Solution

IVD S1699 Concentrate 500 mL, 10x concentrated
IVD 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

IVD S2369 Concentrate 500 mL, 10x concentrated

This product is a citrate buffer, pH 6, 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, and for use on cytological specimens.

Target Retrieval Solution, pH 9

IVD S2367 Concentrate 500 mL, 10x concentrated
IVD 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)

IVD 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

IVD 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

IVD S3001 Diluent and wash buffer 6 x 1 L
IVD 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

IVD S1966 100 mL

Wash Buffer 10x

IVD 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

Hematoxylin

IVD S3302 500 mL

Hematoxylin, Mayer's

IVD 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

IVD 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

IVD S3025 Mounting medium 15 mL

This mounting medium is specifically formulated for mounting tissue specimens, cell smears, and cytopspins 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

IVD S3023 Mounting medium 15 mL

Usage of this mounting medium will help reduce fading of immunofluorescence during microscopy.

Glycerel Mounting Medium, Aqueous

IVD C0563 Mounting medium 15 mL

Glycerel is an aqueous, histologic mounting medium. Glycerel is suitable whenever a permanent, watersoluble mounting medium is desired. Provided in dropper bottle.

Ultramount Permanent Mounting Medium, Aqueous

IVD 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 cytopspins 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

IVD 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

IVD S3004 2 mL concentrate 2mL

IVD 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.

Proteolytic Enzyme

IVD 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

IVD 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

IVD 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

IVD 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

IVD 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)

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, square and small flap labels from Large Flap Slide Label Kit, Code S3417, Square Flap Label Roll, Code S3380, 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)

Universal Label Printer (Link) prints text and barcodes on

- Large Flap Slide Labels, Code S3417
- Square Flap Slide Labels, Code S3380
- Small Flap Slide Labels, Code DL213

Label Printer (Autostainer Plus) prints text and barcodes on

- Large Flap Slide Labels, Code S3417
- Square Flap Slide Labels, Code S3380

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 both large and square flap labels from Large Flap Slide Label Kit, Code S3417 and Square Flap Slide Label Roll, Code S3380.

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	Hematoxylin stain (organic and aqueous)	PAS stain
HIER in aqueous solutions	Methyl Green stain	Trichrome stain
Hydrogen peroxide	Iodine stain	Wright stain
Glacial acetic acid	Papanicolaou stain (Pap stain)	Silver stain
Bleach	Gram 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

Slide Labels, Square Flap

S3380 Square flap labels 500 labels

Specifications

- Label size: 0.875" W x 0.875" H (22 mm W x 22 mm H)
- 1 label across
- Tear-off perforation between rows of labels
- 500 labels per roll

pharmDx Solution

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Introduction to the pharmDx Solution

Quality results for precise interpretation

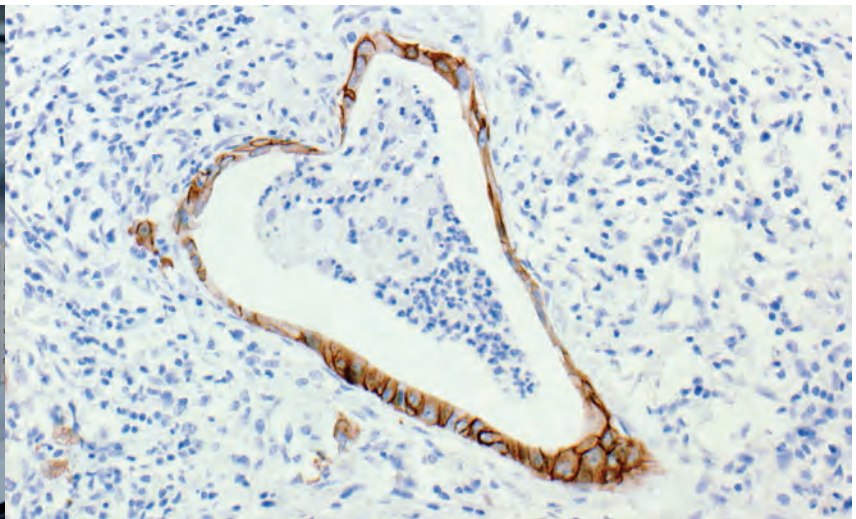
Dako pharmDx Solution is a portfolio of all-in-one pharmDx kits that lead to optimal diagnostic results with accuracy and quality.

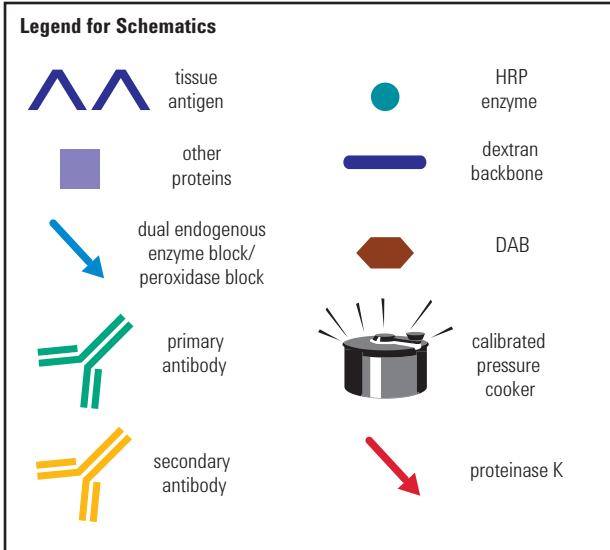
pharmDx is all about personalized medicine

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





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).

The c-Kit pharmDx assay is a qualitative immunohistochemical (IHC) kit system used for the identification of c-kit (CD117) protein/CD117 antigen (c-kit protein) expression in normal and neoplastic formalin-fixed, paraffin-embedded tissues for histological evaluation. The c-Kit pharmDx rabbit polyclonal antibodies specifically detect the c-kit protein in CD117 antigen-expressing cells.

The c-Kit pharmDx is indicated as an aid in the differential diagnosis of gastrointestinal stromal tumors (GIST). After diagnosis of GIST, results from c-Kit pharmDx may be used as an aid in identifying those patients eligible for treatment with Gleevec®/Glivec® (imatinib mesylate).

Results from hematoxylin and eosin (H&E) stains and a panel of antibodies can aid in the differential diagnosis of GIST. Interpretation must be made by a qualified pathologist, within the context of a patient's clinical history, proper controls, and other diagnostic tests.

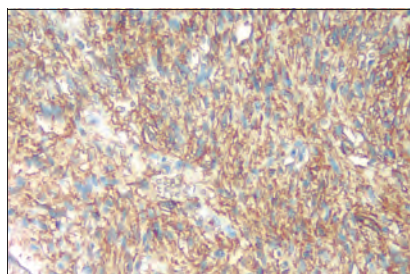
Note: This test is not intended as the sole basis for making the diagnosis of GIST and is not intended as the sole basis for selecting Gleevec®/Glivec® therapy. The outcome of c-kit negative GIST patients treated with Gleevec®/Glivec® has not been established. A negative result would not necessarily exclude the diagnosis of GIST, nor should it preclude treatment with Gleevec®/Glivec® (1-3).

All subjects in the Novartis Gleevec®/Glivec® clinical trials were selected using the anti-c-kit protein primary antibody used in the c-Kit pharmDx kit under an investigational Novartis Clinical trial protocol (NCTP). The primary anti-c-Kit rabbit polyclonal antibody reagent used in the NCTP was purchased from Dako. The c-Kit pharmDx primary polyclonal antibody reagent underwent the same method of production, purification and quality control as did the NCTP polyclonal anti-c-Kit reagent.

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.
4. Heinrich M, Corless C, Duensing A, McGreevey L, Chen CJ, Joseph N, et al. PDGFRA activating mutations in gastrointestinal stromal tumors. *Science* 2003;229:708-10.
5. Taniguchi M, Nishida T, Hirota S, Isozaki K, Ito T, Nomura T, et al. Effect of c-KIT mutation on prognosis of gastrointestinal stromal tumors. *Cancer Res* 1999;59:4297-300.
6. Medeiros F, Codess CL, Duensing A, Homick JL, Oliveira AM, Heinrich MC, et al. KIT-negative gastrointestinal stromal tumors: proof of concept and therapeutic implications. *Am J Surg Pathol* 2004;7:889-94.



Gastrointestinal stromal tumor (FFPE), stained with c-Kit pharmDx, Code K1906 or K1907; 3+ staining.

c-Kit pharmDx for Manual Use

IVD K1906

25 tests

c-Kit pharmDx for Dako Autostainer

IVD K1907

35 tests

Facts about c-Kit pharmDx Kits

- 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 or S3302

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

IVD K1492

35 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.

EGFR pharmDx Kit for Dako Autostainer

IVD K1494

50 tests

The system is based on the consecutive application of:

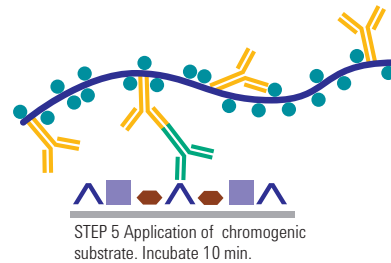
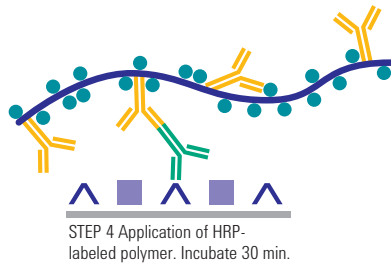
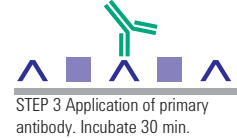
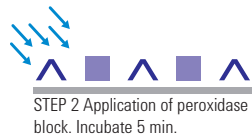
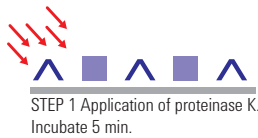
1. Primary antibody against EGFR
2. Peroxidase-labeled polymer
3. Chromogenic substrate

All reagents, control cell line slides, protocols and scoring guidelines are provided.

EGFR pharmDx Kits offer:

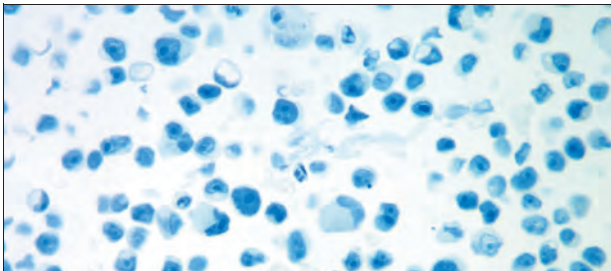
- Complete set of optimized reagents
- Reproducible IHC assay for identifying EGFR protein expression
- Performance control slides containing sections of formalin-fixed, paraffin-embedded cell lines that represent positive and negative levels of EGFR protein expression

EGFR pharmDx Procedure

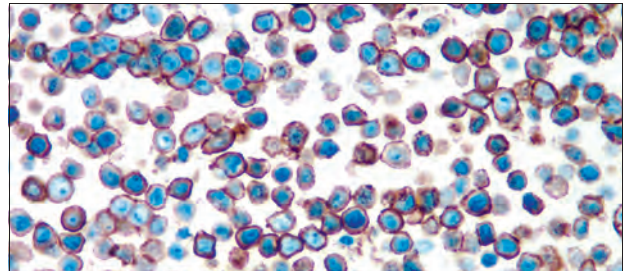


Manual procedure

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

- 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:

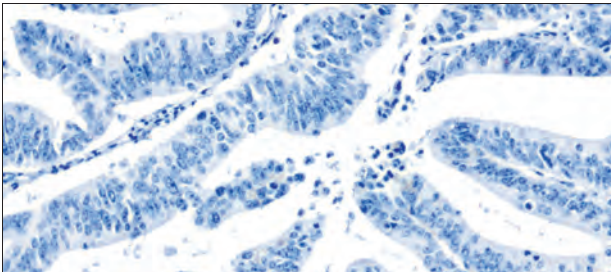
EGFR pharmDx Interpretation Manual, Order No. 08052

EGFR pharmDx Kits include:

- Proteinase K
- Peroxidase Block
- Monoclonal Mouse Antibody
- Mouse IgG1 Negative Control Reagent
- Peroxidase-Labeled Polymer
- Liquid DAB+ Chromogen
- DAB Substrate Buffer
- Wash Buffer 10x
- Control Slides

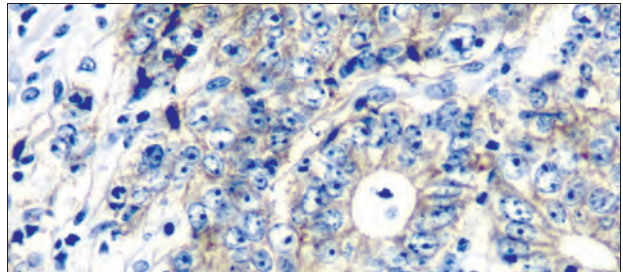
Examples of tissues stained with EGFR pharmDx Kit

EGFR Negative



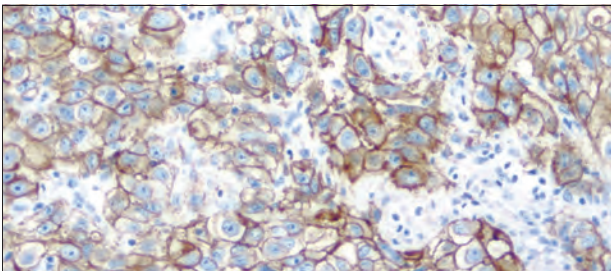
Colorectal cancer, no membrane staining, 0 staining intensity.

EGFR Positive



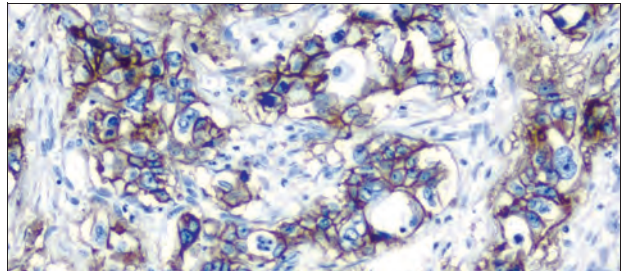
Colorectal cancer, membrane staining, 1+ staining intensity.

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

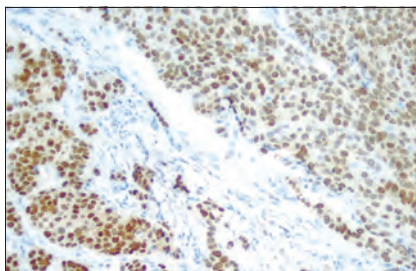
Levels of steroid hormone receptors (estrogen and progesterone receptors) can aid in predicting which women are likely to benefit from hormone treatment. Treatment guidelines recommend measurement of steroid hormone receptors status in the diagnosis, prognosis, and treatment planning for women with breast 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 Kits For Automated Link Platforms

IVD SK310 For Automated Link Platforms

50 tests

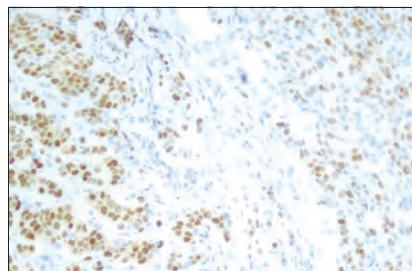


Estrogen receptor staining, 20x
(PS4) + (IS2) = TS6.

ER/PR pharmDx Kit for Dako Autostainer

IVD K4071 For Dako Autostainer

50 tests



Progesterone receptor staining, 20x
(PS3) + (IS1) = TS4.

ER/PR pharmDx Kit provides reliable results for ER and PR expression levels.

- 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:

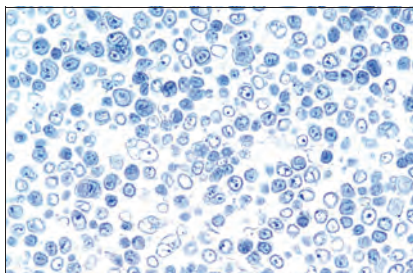
- Complete set of optimized reagents
- Ready-to-use antibodies and negative control reagent to ensure consistent sensitivity
- Control slides to validate each run

Also available from Dako by request:

ER/PR pharmDx Interpretation Manual, Order No. 28252

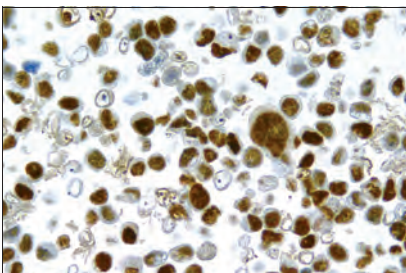
ER/PR pharmDx Kit Control Slides

Negative



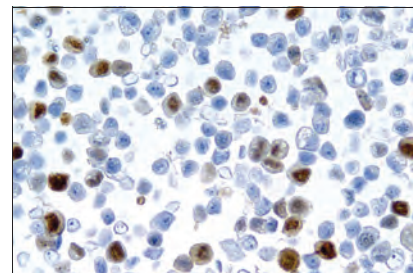
HT-29; negative cell line control stained with ER/PR pharmDx Kit, 40x.

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)

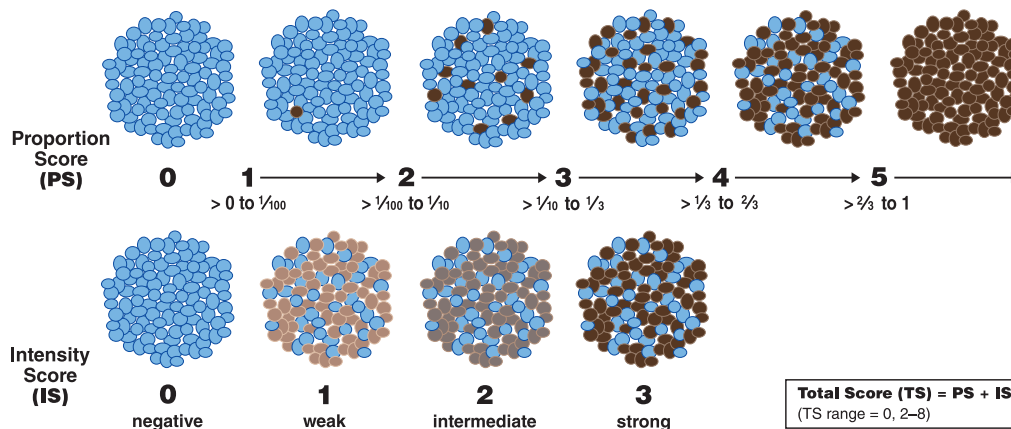
ER/PR pharmDx Scoring System

ER/PR pharmDx Kit labels 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.

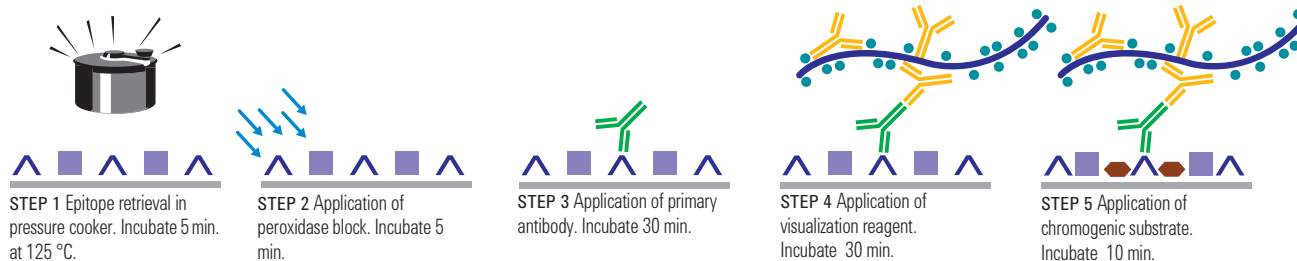
- A proportion score (PS) = estimated proportion of tumor cells with positive nuclear staining
- An intensity score (IS) = estimated average staining intensity of all positive tumor cells
- A total score (TS) = sum of PS and IS (0 or 2-8)
- A positive result for both ER and PR is defined as TS ≥ 3 , 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



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 metastatic gastric or gastroesophageal junction adenocarcinoma. HercepTest specifically demonstrates overexpression of HER2 protein. HercepTest is indicated as an aid in the assessment of breast and gastric cancer patients for whom Herceptin® (trastuzumab) treatment is being considered and for breast cancer patients for whom PERJETA™

(pertuzumab) or KADCYLA™ (ado-trastuzumab emtansine) treatment is being considered (see Herceptin®, PERJETA™ and KADCYLA™ package inserts).

HercepTest™, Herceptin®, PERJETA™ and KADCYLA™ are trademarks owned by Genentech, Inc. and/or F. Hoffmann-La Roche Ltd.; HercepTest™ is subject to an exclusive trademark license to Dako Denmark A/S.

HercepTest for Automated Link Platforms

IVD SK001

50 tests

HercepTest

IVD K5204

35 tests

HercepTest for Dako Autostainer

IVD K5207

50 test

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 are FDA approved and 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

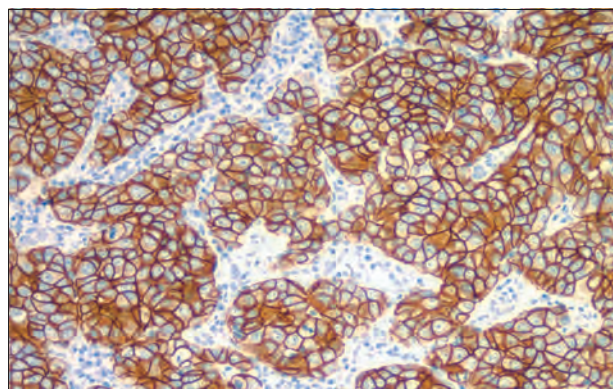
Guidelines for Scoring HercepTest - Breast Order No. 38602

HercepTest Interpretation Manual - Breast Order No. 29036

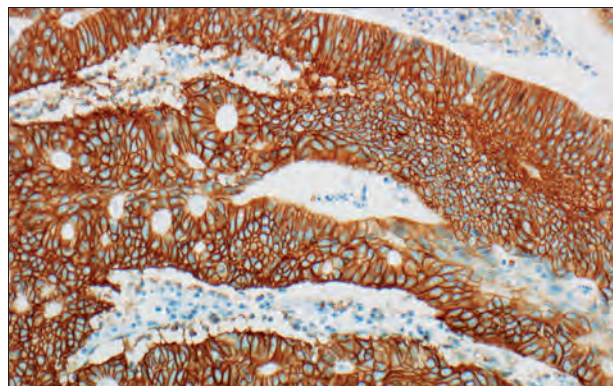
Gastric cancer

Guidelines for Scoring HercepTest - Gastric Order No. 38662

HercepTest Interpretation Manual - Gastric Order No. 29028

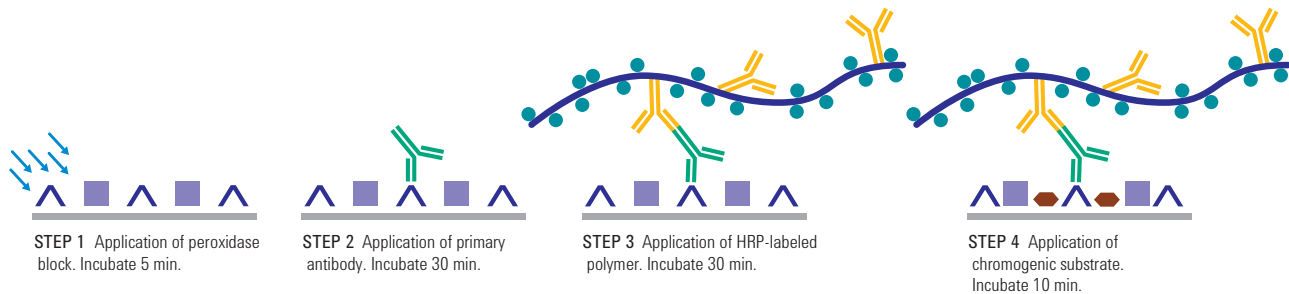


Breast carcinoma (FFPE) stained with HercepTest, Code K5204, 3+ staining.

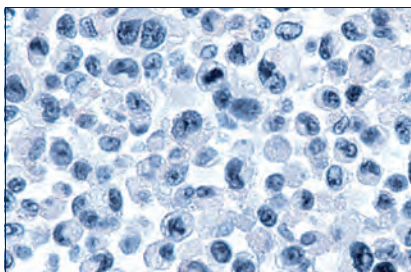


Gastric adenocarcinoma (FFPE) stained with HercepTest, Code K5204, 3+ staining.

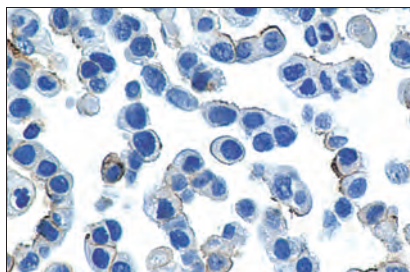
HercepTest Procedure



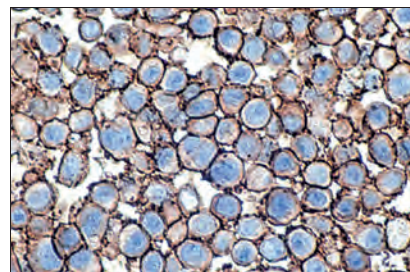
Control Cell Lines for Staining Procedure Validation



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

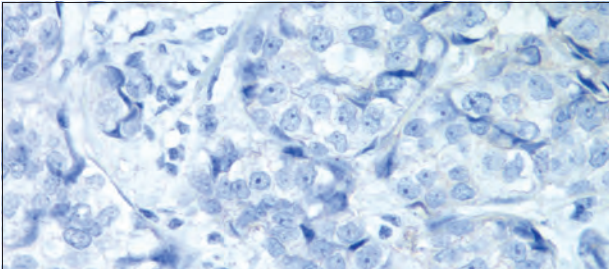
Guidelines for HercepTest Interpretation - Breast Cancer

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.

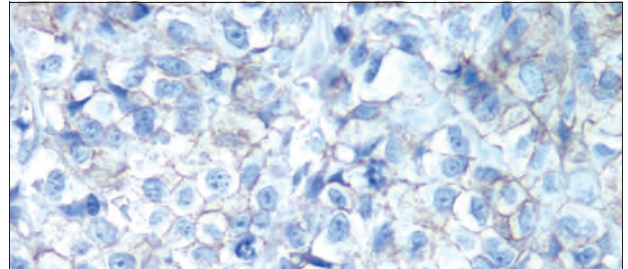
Score to report	HER2 protein overexpression assessment	Staining pattern
0	Negative	No staining is observed, or faint membrane staining present in less than 10% of the tumor cells.
1+	Negative	A faint/barely perceptible membrane staining is detected in more than 10% of the tumor cells. The cells exhibit 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.

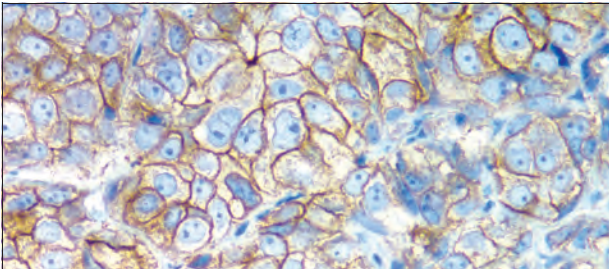
Score: 0 (40x)



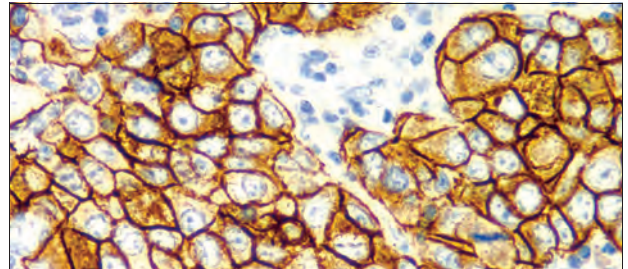
Score: 1+ (40x)



Score: 2+ (40x)



Score: 3+ (40x)



Guidelines for HercepTest Interpretation - Gastric Cancer

Only specimens from patients with metastatic gastric 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:

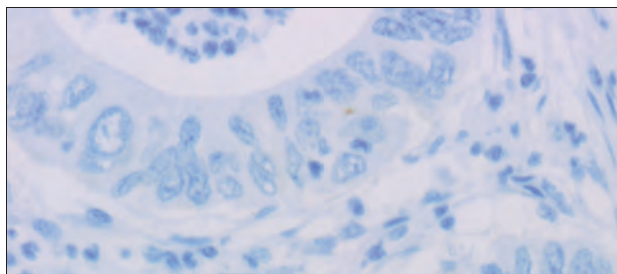
Score to report	HER2 protein overexpression assessment	Staining pattern
0	Negative	No reactivity or membranous reactivity in < 10% of tumor cells
1+	Negative	Faint/barely perceptible membranous reactivity in \geq 10% of tumor cells; cells are reactive only in part of their membrane
2+	Equivocal	Weak to moderate complete, basolateral or lateral membranous reactivity in \geq 10% of tumor cells
3+	Positive	Strong complete, basolateral or lateral membranous reactivity in \geq 10% of tumor cells

Guidelines for biopsy specimens:

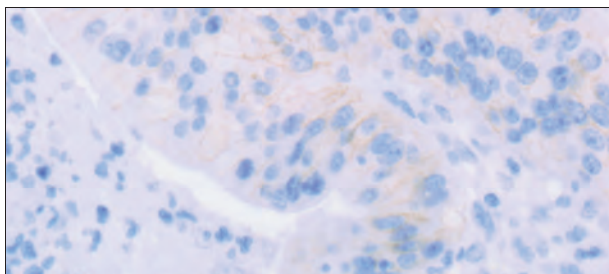
Score to report	HER2 protein overexpression assessment	Staining pattern
0	Negative	No reactivity or no membranous reactivity in any (or < 5 clustered) tumor cells
1+	Negative	Tumor cell cluster (\geq 5 cells) with a faint/barely perceptible membranous reactivity irrespective of percentage of tumor cells stained
2+	Equivocal	Tumor cell cluster (\geq 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 (\geq 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)



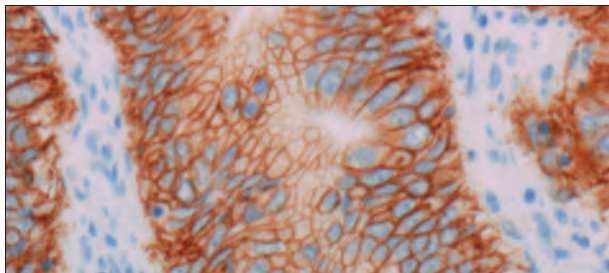
Score: 1+ (40x)



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 trastuzumab (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).

Pertuzumab (PERJETA[™]) is a recombinant humanized monoclonal antibody that binds to sub-domain II of the extracellular part of the HER2 protein thereby blocking its ability to form heterodimers with other members of the HER family, including HER1 (EGFR), HER3 and HER4. PERJETA[™] has shown to be effective and safe in the treatment of breast cancer patients with HER2 protein overexpression. During clinical studies of pertuzumab, HER2 overexpression was demonstrated directly by IHC or indirectly evidenced through correlation of *HER2* gene amplification to protein overexpression as demonstrated by FISH. However, in the randomized trial, data were available for a limited number of patients (8/808) for whom the FISH results were positive but the IHC results were negative (0, 1+) (2,3).

Ado-trastuzumab emtansine (KADCYLA[™]) is a novel antibody-drug conjugate specifically designed for the treatment of HER2-positive cancer. It is composed of the potent cytotoxic agent DM1 (a thiol-containing maytansinoid anti-microtubule agent) conjugated to trastuzumab via a linker molecule. Ado-trastuzumab emtansine binds to HER2 with an affinity similar to that of trastuzumab; such binding is required for its anti-tumor activity. It is hypothesized that after binding to HER2, ado-trastuzumab emtansine undergoes receptor-mediated internalization, followed by intracellular release of DM1 and subsequent cytotoxicity (4). A number of clinical studies have shown that ado-trastuzumab emtansine is effective and safe in treatment of HER2-positive breast cancer patients (5-8).

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 (9).

Pre-clinical data has showed that trastuzumab has significant antitumor activity in gastric cancer (10). 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 Herceptin[®] and *HER2* FISH pharmDx were used as initial screening tests, showed the added benefit of combining Herceptin[®] with standard chemotherapy (11).

Precaution for gastric cancer: HER2 protein overexpression and *HER2* gene amplification are not as correlated in gastric cancer as with breast cancer; therefore a single method should not be used to determine HER2 status.

Kits

HerceptTest was the first FDA-approved diagnostic kit designed to quickly and accurately assess HER2 protein status.

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 *HER2* gene status.

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. Baselga J, Gelmon KA, Verma S, et al. Phase II trial of pertuzumab and trastuzumab in patients with human epidermal growth factor receptor 2-positive metastatic breast cancer that progressed during prior trastuzumab therapy. *J Clin Oncol* 2010;28:1138-44.
3. Baselga J, Cortés J, Kim SB, Im SA, Hegg R, Im YH, et al. Pertuzumab plus trastuzumab plus docetaxel for metastatic breast cancer. *N Engl J Med* 2012;366:109-19.
4. Lewis Phillips GD, Li G, Dugger DL, et al. Targeting HER2-positive breast cancer with trastuzumab-DM1, an antibody-cytotoxic drug conjugate. *Cancer Res* 2008;68:9280-90.
5. Krop IE, Beeram M, Modi S, et al. Phase I study of trastuzumab-DM1, an HER2 antibody-drug conjugate, given every 3 weeks to patients with HER2-positive metastatic breast cancer. *J Clin Oncol* 2010;28:2698-704.
6. Burris HA 3rd, Rugo HS, Vukelja SJ, et al. Phase II study of the antibody drug conjugate trastuzumab-DM1 for the treatment of human epidermal growth factor receptor 2 (HER2)-positive breast cancer after prior HER2-directed therapy. *J Clin Oncol* 2011;29:398-405.
7. Krop IE, Lorusso P, Miller KD, et al. A phase II study of trastuzumab emtansine in patients with human epidermal growth factor receptor 2-positive metastatic breast cancer who were previously treated with trastuzumab, lapatinib, an anthracycline, a taxane, and capecitabine. *J Clin Oncol* 2012;30:3234-41.
8. Verma S, Miles D, Gianni L, Krop IE, Welslau M, Baslega J, et al. Trastuzumab emtansine for HER2-positive advanced breast cancer. *New Engl J Med* 2012;367:1783-91.
9. 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.
10. 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.
11. 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 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.

HER2 IQFISH pharmDx

IVD 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.

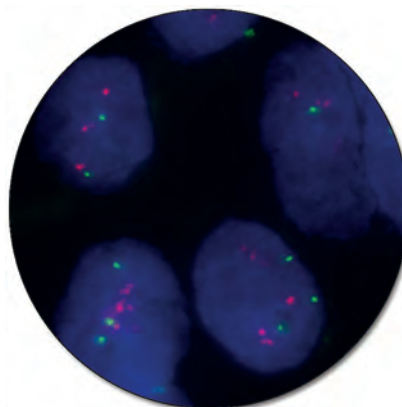
HER2 IQFISH pharmDx is designed to quantitatively determine *HER2* gene amplification in formalin-fixed, paraffin-embedded (FFPE) breast cancer tissue specimens and FFPE specimens from patients with adenocarcinoma of the stomach, including gastro-esophageal junction. HER2 IQFISH pharmDx with the indication 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 breast and gastric cancer patients for whom Herceptin® treatment is being considered and for breast cancer patients for whom PERJETA™ or KADCYLA™ treatment is being considered (see Herceptin®, PERJETA™, and KADCYLA™ package inserts). For breast cancer patient, 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.

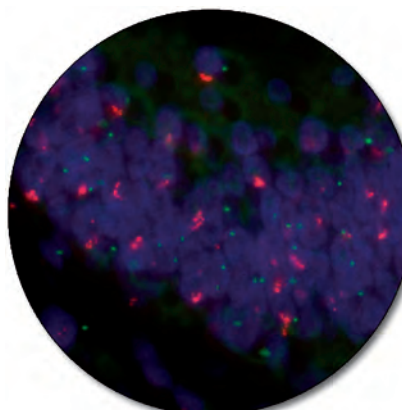
HER2 IQFISH pharmDx is a complete system providing all reagents required to perform 20 FISH assays. This includes pre-treatment reagents, *HER2* and CEN-17 reference chromosome 17 probe mix in IQISH hybridization buffer, buffers and mounting medium. A standard validated procedure and validated interpretation guidelines are also provided.

HER2 IQFISH pharmDx, Code K5731, is CE marked and FDA approved.

HercepTest™, Herceptin®, PERJETA™ and KADCYLA™ are trademarks owned by Genentech, Inc. and/or F. Hoffmann-La Roche Ltd.; HercepTest™ is subject to an exclusive trademark license to Dako Denmark A/S.



Breast carcinoma (FFPE) stained with HER2 IQFISH pharmDx, Code K5731. Tumor cells show HER2 gene amplification (HER2/CEN-17 ratio ≥ 2).



Gastric cancer (FFPE) stained with HER2 IQFISH pharmDx, Code K5731. Tumor cells show HER2 gene amplification (HER2/CEN-17 ratio ≥ 2).

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

IVD SK109

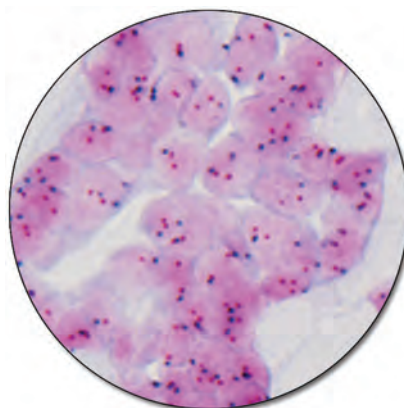
20 tests

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).

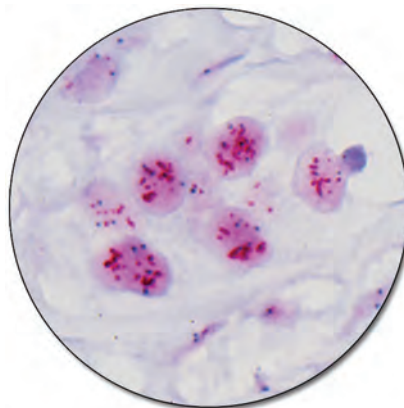
HER2 CISH pharmDx Kit is indicated as an aid in the assessment of patients for whom Herceptin™ treatment is being considered. Results from the *HER2* CISH pharmDx are intended for use as an adjunct to the information currently used for estimating prognosis in stage II, node-positive breast cancer patients.

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

PD-L1 IHC 22C3 pharmDx

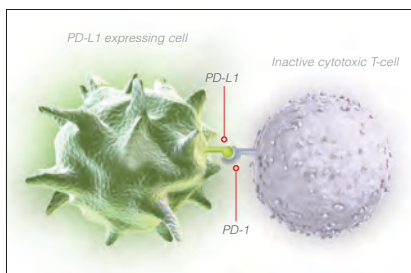
PD-L1 Testing - Advancing Treatment Options

The immune system and role of PD-L1 protein

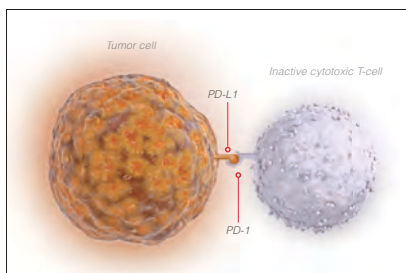
- Cytotoxic T cells work to detect and eliminate infected cells and tumor cells from the body
- To limit damage to surrounding tissue, normal cells differentiate themselves by expressing a protein signal called PD-L1 (programmed death ligand 1). This signal is similar to a warning sign and is designed to avoid elimination of normal cells.
- T cells detect the PD-L1 signal through a receptor called PD-1 (programmed death receptor 1)

Tumor involvement and role of PD-1-targeted therapy

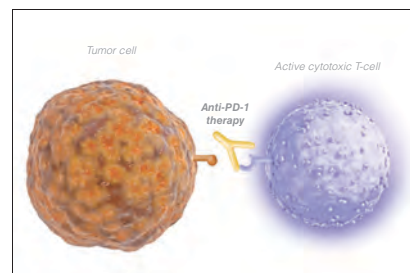
- Some tumors can also express the PD-L1 signal to mimic normal cells and escape elimination
- Anti-PD-1 therapy works by blocking the PD-1 receptor that detects the PD-L1 signal in tumor cells
- Identifying PD-L1 expression on tumor cells is important in identifying the signal needed to assess which patients will respond better to anti-PD-1 therapy



Inactivation of T cells limits damage to normal tissue.



Inactivation of T cells reduces tumor cell death and elimination.



Blocking the PD-1/PD-L1 interaction helps to enable active T cells and tumor cell death and elimination.

PD-L1 IHC 22C3 pharmDx for Autostainer Link 48

IVD SK006 For Autostainer Link 48 **NEW** 50 tests

PD-L1 IHC 22C3 pharmDx is a qualitative immunohistochemical assay using Monoclonal Mouse Anti-PD-L1, Clone 22C3 intended for use in the detection of PD-L1 protein in formalin-fixed, paraffin-embedded (FFPE) non-small cell lung cancer (NSCLC) tissue using EnVision FLEX visualization system on Autostainer Link 48. PD-L1 protein expression is determined by using Tumor Proportion Score (TPS), which is the percentage of viable tumor cells showing partial or complete membrane staining. The specimen should be considered PD-L1 positive if TPS \geq 50% of the viable tumor cells exhibit membrane staining at any intensity.

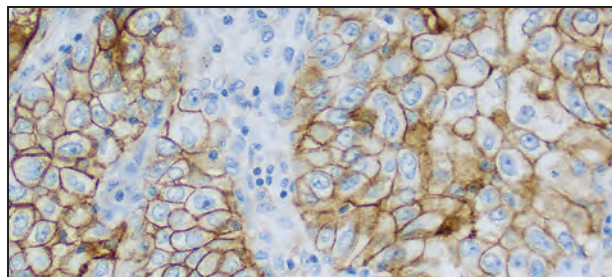
PD-L1 IHC 22C3 pharmDx is indicated as an aid in identifying NSCLC patients for treatment with KEYTRUDA® (pembrolizumab).

The kit includes reagents required for the immunohistochemical staining (except wash buffer), control slides representing different expression levels of PD-L1 protein, and detailed instructions. The kit has been tailored especially for use on Autostainer Link 48 instruments. The

materials provided are sufficient for 50 tests (50 slides incubated with monoclonal mouse antibody to PD-L1 and 50 slides incubated with the corresponding negative control reagent, 100 slides in total).

Reference:

1. Garon EB, Rizvi NA, Hui R, Leigh N, Balmanoukian AS, Eder JP, et al. Pembrolizumab for the treatment of non-small cell lung cancer. *New Eng J Med* 2015;372:2018-28.



Non-small cell lung carcinoma (FFPE) with PD-L1 High Expression stained with PD-L1 IHC 22C3 pharmDx, Code SK006.

The system is based on the consecutive application of:

1. Primary antibody against PD-L1
2. Visualization reagent
3. Chromogenic substrate

All reagents, control cell line slides and detailed instructions are provided.

PD-L1 IHC 22C3 pharmDx kit is FDA approved and includes:

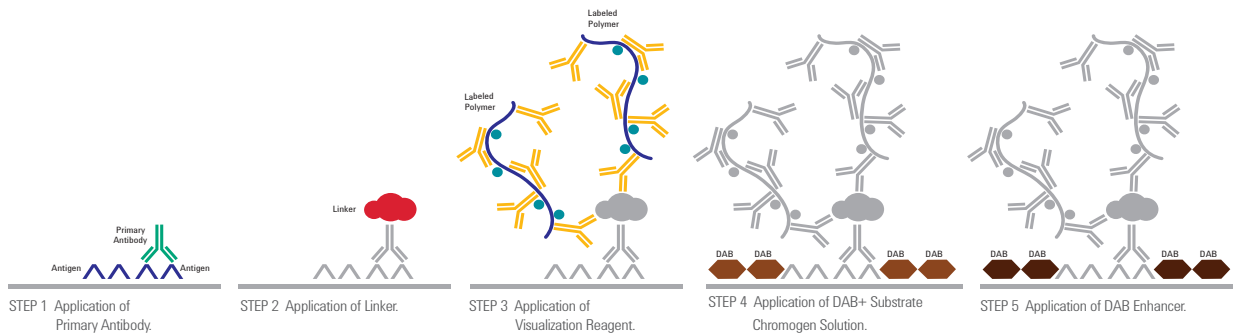
- Peroxidase-Blocking Reagent
- Monoclonal Mouse Anti-PD-L1, Clone 22C3
- Negative Control Reagent
- Mouse LINKER

- Visualization Reagent-HRP
- DAB+ Substrate Buffer
- DAB+ Chromogen
- DAB Enhancer
- EnVision FLEX Target Retrieval Solution, Low pH (50x)
- PD-L1 IHC 22C3 pharmDx Control Slides

Reagents required but not included in kit

- EnVision FLEX Wash Buffer (20x) K8007
- EnVision FLEX Hematoxylin K8008

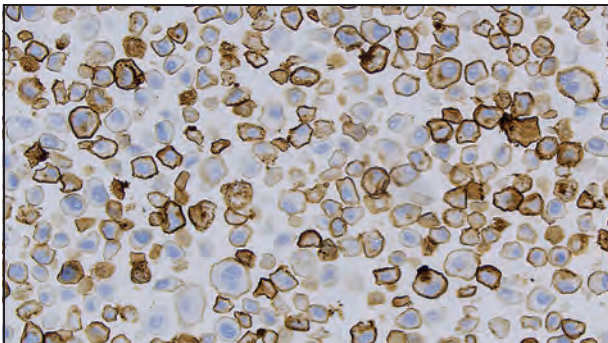
PD-L1 IHC 22C3 Procedure
Graphical representation of assay steps



Control cell lines

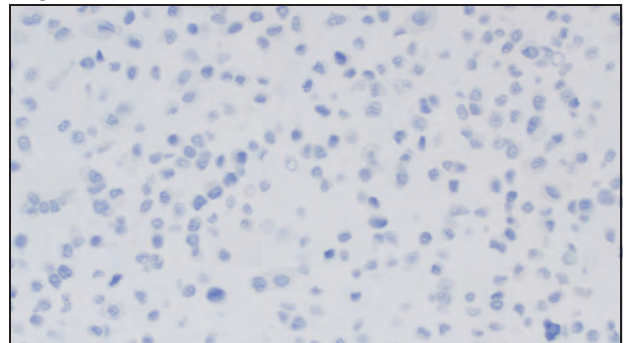
Control slides are provided to help validate the staining runs which enhance the confidence in results. They are not to be used as an interpretation reference.

Positive Control Cell Pellet



Acceptable staining of positive pellet. At least 70% of the cells contain cell membrane staining of at least 2+ average staining intensity. Any background staining is less than 1+ staining intensity. 20x magnification.

Negative Control Cell Pellet



Acceptable staining of negative pellet. The majority of cells should demonstrate no staining. The presence of 10 or less cells with distinct cell membrane staining is acceptable. Any background staining is less than 1+ staining intensity. 20x magnification.



Tumor Proportion Score

PD-L1 protein expression is determined by using Tumor Proportion Score (TPS), which is the percentage of viable tumor cells showing partial or complete membrane staining.

NSCLC patient specimens should be considered positive for PD-L1 expression if TPS \geq 50% of the of viable tumor cells exhibit membrane staining at any intensity (i.e. \geq 1+). These patients may be considered for treatment with KEYTRUDA® (pembrolizumab).

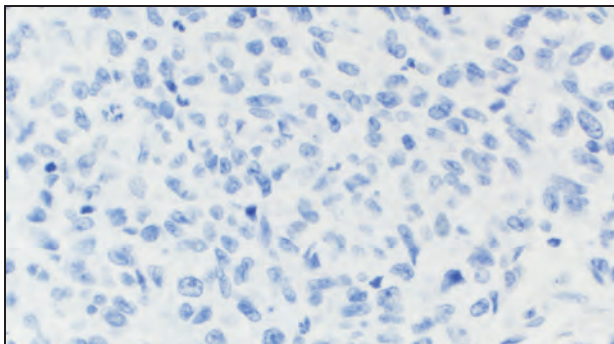
PD-L1 staining definition

PD-L1 staining is any perceptible (\geq 1+) partial or complete cell membrane staining of viable tumor cells.

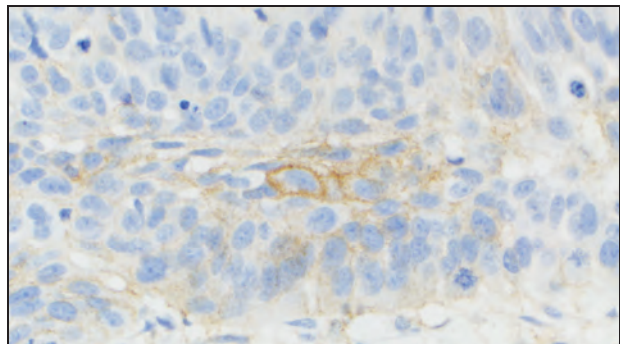
Interpretation of PD-L1 expression

Patient specimens tested with PD-L1 IHC 22C3 pharmDx are interpreted as having No Expression, Low Expression, or High Expression of PD-L1. The percentage of viable tumor cells showing partial or complete cell membrane staining, the tumor proportion score, determines the PD-L1 expression status of the specimen.

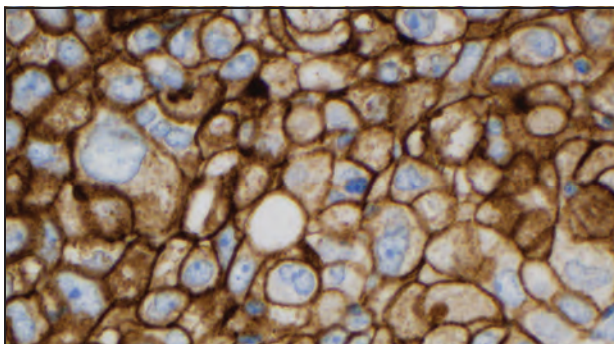
See Dako Interpretation Manual for complete interpretation of PD-L1 IHC 22C3 pharmDx staining results, Order No. 29111.



No Expression (TPS < 1%).



Low Expression (TPS \geq 1–49%).



High Expression (TPS \geq 50%).

Make the right choice

Make the right test choice for assessing KEYTRUDA® (pembrolizumab) eligibility

- Use the same test employed in the KEYTRUDA® clinical studies
- Incorporate PD-L1 testing early
- Utilize our extensive education and training resources to incorporate PD-L1 testing in your laboratory
- Clinically validated assay and scoring guidelines for KEYTRUDA® eligibility
- Includes all reagents necessary to perform a complete staining run
- Includes positive and negative control cell line slides to validate staining run

PD-L1 IHC 28-8 pharmDx

The role of CTLA-4 and PD-1/PD-L1 pathways in cancer

Normal cells limit damage to healthy tissue

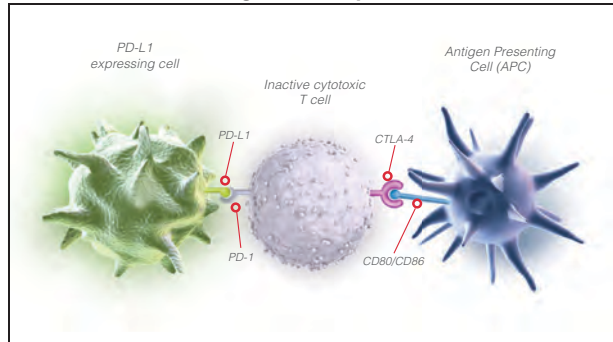


Figure 1. Inactivation of T cells limits damage to healthy tissue.

Tumor cells escape detection

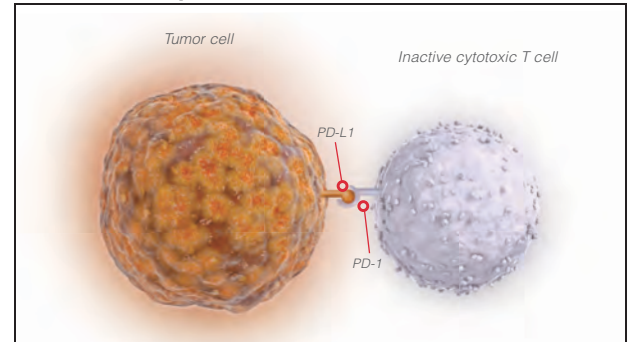


Figure 2. Inactivation of T cells reduces tumor cell killing.

CTLA-4 therapy augments T cell activation and proliferation

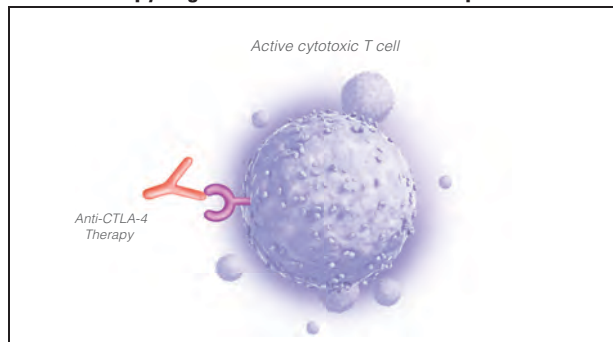


Figure 3. Blocking CTLA-4 contributes to an increase in anti-tumor immune response.

PD-1 therapies harness the immune response to fight tumors

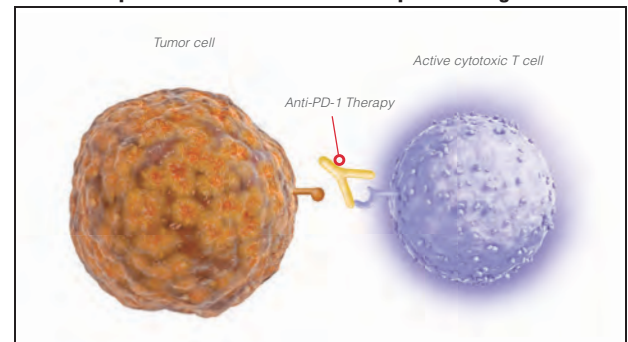


Figure 4. Blocking PD-1 enables cytotoxic T cells to actively remove tumor cells.

PD-L1 IHC 28-8 pharmDx for Autostainer Link 48

IVD SK005 For Autostainer Link 48 **NEW** 50 tests

PD-L1 IHC 28-8 pharmDx is a qualitative immunohistochemical assay using Monoclonal Rabbit Anti-PD-L1, Clone 28-8 intended for use in the detection of PD-L1 protein in formalin-fixed paraffin-embedded (FFPE) non-squamous non-small cell lung cancer (NSCLC) and melanoma tissues using EnVision FLEX visualization system on Autostainer Link 48. PD-L1 protein expression is defined as the percentage of tumor cells exhibiting positive membrane staining at any intensity.

Non-squamous NSCLC

PD-L1 expression as detected by PD-L1 IHC 28-8 pharmDx in non-squamous NSCLC may be associated with enhanced survival from OPDIVO® (nivolumab).

Melanoma

Positive PD-L1 status as determined by PD-L1 IHC 28-8 pharmDx in melanoma is correlated with the magnitude of the treatment effect on progression-free survival from OPDIVO®.

PD-L1 IHC 28-8 pharmDx kit

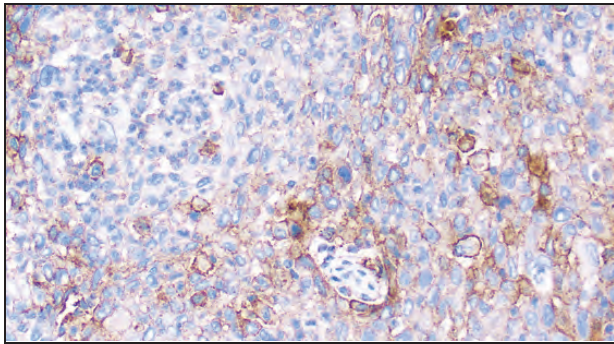
The kit includes reagents required for the immunohistochemical staining (except wash buffer), control slides representing different expression levels of PD-L1 protein, and detailed instructions. The kit has been tailored especially for use on Autostainer Link 48 instruments. The materials provided are sufficient for 50 tests (50 slides incubated with monoclonal rabbit antibody to PD-L1 and 50 slides incubated with the corresponding Negative Control Reagent, 100 slides in total).

PD-L1 IHC 28-8 pharmDx is subject to an exclusive trademark license to Dako Denmark A/S. OPDIVO® is a trademark owned by Bristol-Myers Squibb.

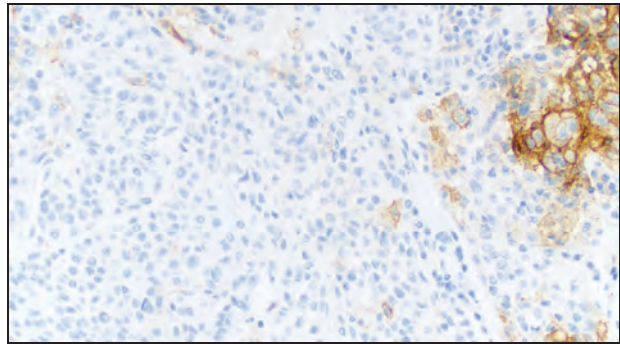
Reference:

- Phillips T, Simmons P, Inzunza HD, Cogswell J, Novotny J Jr, Taylor C, et al. Development of an automated PD-L1 immunohistochemistry (IHC) assay for non-small cell lung cancer. *Appl Immunohistochem Mol Morphol* 2015;23:541-9.

PD-L1 IHC 28-8 pharmDx (continued)



Non-squamous NSCLC (FFPE) stained with PD-L1 IHC 28-8 pharmDx, Code SK005. PD-L1 expression \geq 10%.



Melanoma (FFPE) stained with PD-L1 IHC 28-8 pharmDx, Code SK005. PD-L1 expression \geq 1%.

Kit components

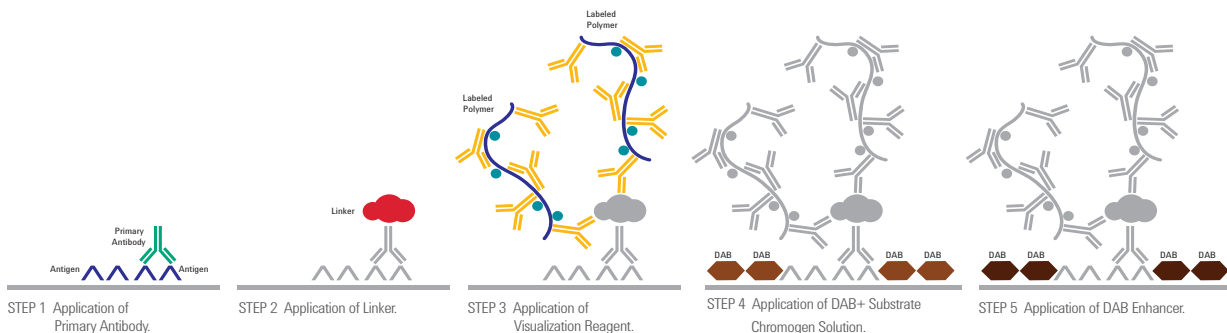
Dako PD-L1 IHC 28-8 pharmDx is a complete kit with reagents sufficient for 50 tests (50 slides incubated with primary antibody to PD-L1 and 50 slides incubated with the corresponding negative control reagent) and 15 Control Slides for use on Autostainer Link 48.

- EnVision FLEX Target Retrieval Solution, Low pH (50x)
- Peroxidase-Blocking Reagent
- Monoclonal Rabbit Anti-PD-L1, Clone 28-8
- Negative Control Reagent
- Anti-Rabbit LINKER
- Visualization Reagent-HRP
- DAB+ Substrate Buffer
- DAB+ Chromogen
- DAB Enhancer
- Control Slides

Reagents required but not included in kit

- EnVision FLEX Wash Buffer (20x) K8007
- EnVision FLEX Hematoxylin K8008

PD-L1 IHC 28-8 pharmDx Procedure Graphical representation of assay steps

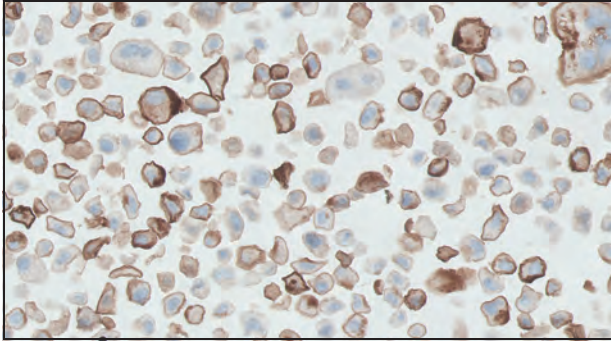


PD-L1 IHC 28-8 pharmDx (continued)

Control cell lines

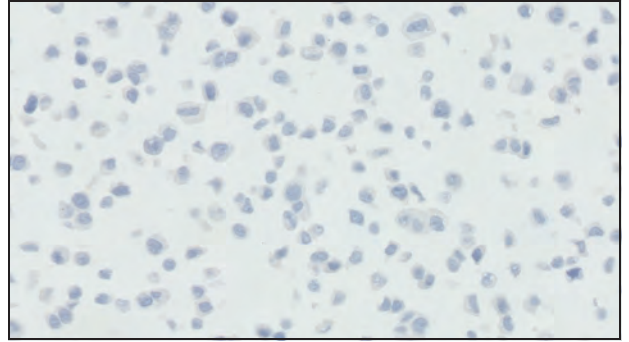
Control slides are provided to help validate the staining runs which enhance the confidence in results. They are not to be used as an interpretation reference.

Positive Control Cell Pellet



Acceptable staining of positive pellet. At least 80% of the cells contain plasma membrane staining of at least 2+ average staining intensity. Any background staining is of less than 1+ staining intensity.

Negative Control Cell Pellet

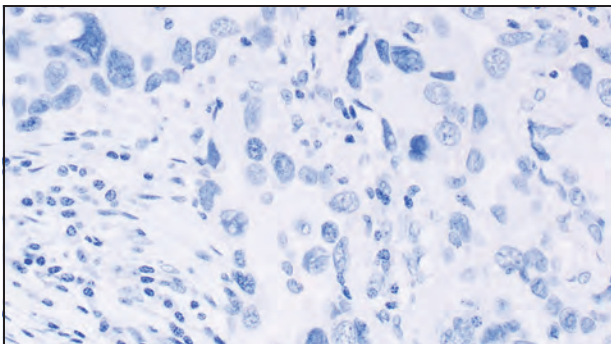


Acceptable staining of negative pellet. No plasma membrane staining. Any background staining is of less than 1+ staining intensity. Staining of a few cells in the negative pellet may occasionally be observed. The presence of 10 or less cells with distinct plasma membrane staining, or cytoplasmic staining with $\geq 1+$ intensity within the boundaries of the cell pellet are acceptable.

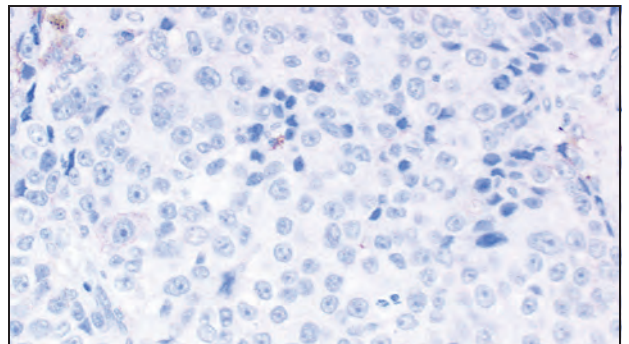
Interpretation of Test Results in non-squamous NSCLC

To assess the PD-L1 expression level in patient slides stained with PD-L1 IHC 28-8 pharmDx, pathologists should determine the percentage of viable tumor cells exhibiting partial or complete linear circumferential plasma membrane staining at any staining intensity.

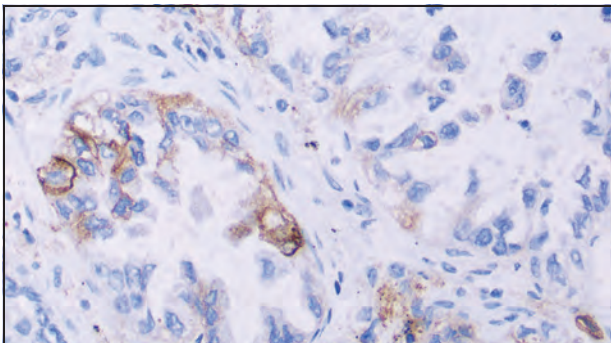
See Dako Interpretation Manual for complete interpretation of PD-L1 IHC 28-8 pharmDx staining results, Order No. 29211.



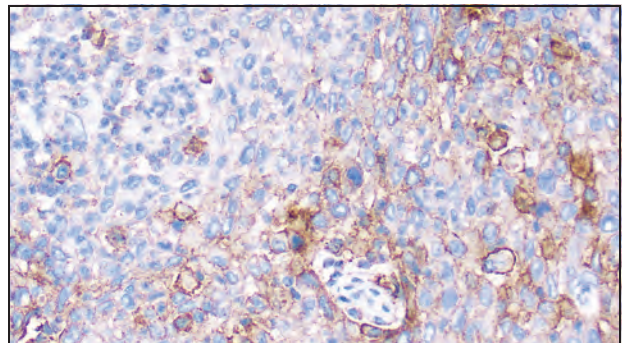
PD-L1 expression < 1%.



PD-L1 expression $\geq 1\%$.



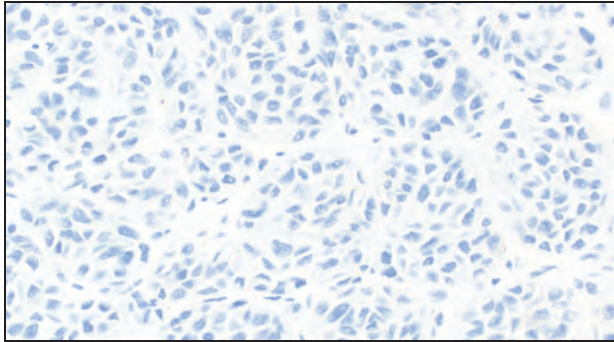
PD-L1 expression $\geq 5\%$.



PD-L1 expression $\geq 10\%$.

Interpretations of Melanoma

Positive PD-L1 status is correlated with the magnitude of the treatment effect on progression-free survival from OPDIVO®. Specimen is considered positive if $\geq 1\%$ of melanoma cells exhibit linear circumferential complete or partial membrane staining of PD-L1. Specimen is considered negative if $< 1\%$ of melanoma cells exhibiting linear circumferential complete or partial membrane staining of PD-L1.

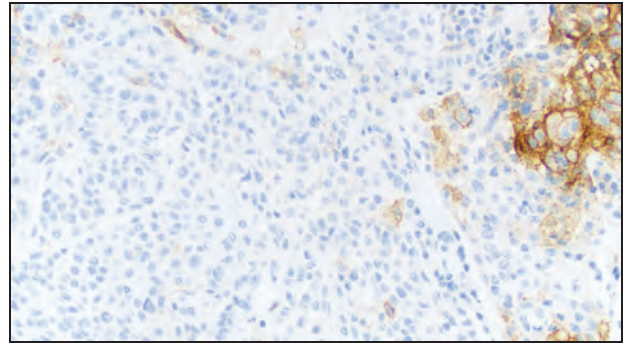


$< 1\%$ of the viable tumor cells exhibit complete circumferential or partial linear plasma membrane staining at any intensity. PD-L1 expression $< 1\%$: NEGATIVE.

Key benefits of PD-L1 IHC 28-8 pharmDx

- The only FDA-approved test for PD-L1 expression associated with enhanced survival with OPDIVO® for non-squamous NSCLC
- The first and only FDA approved PD-L1 test for use in the assessment of the magnitude of treatment effect on progression-free survival in melanoma patients from OPDIVO®

See Dako Interpretation Manual Melanoma for complete interpretation of PD-L1 IHC 28-8 pharmDx staining results, Order No. 29120.



$\geq 1\%$ of the viable tumor cells exhibit complete circumferential or partial linear plasma membrane staining at any intensity. PD-L1 expression $\geq 1\%$: POSITIVE.

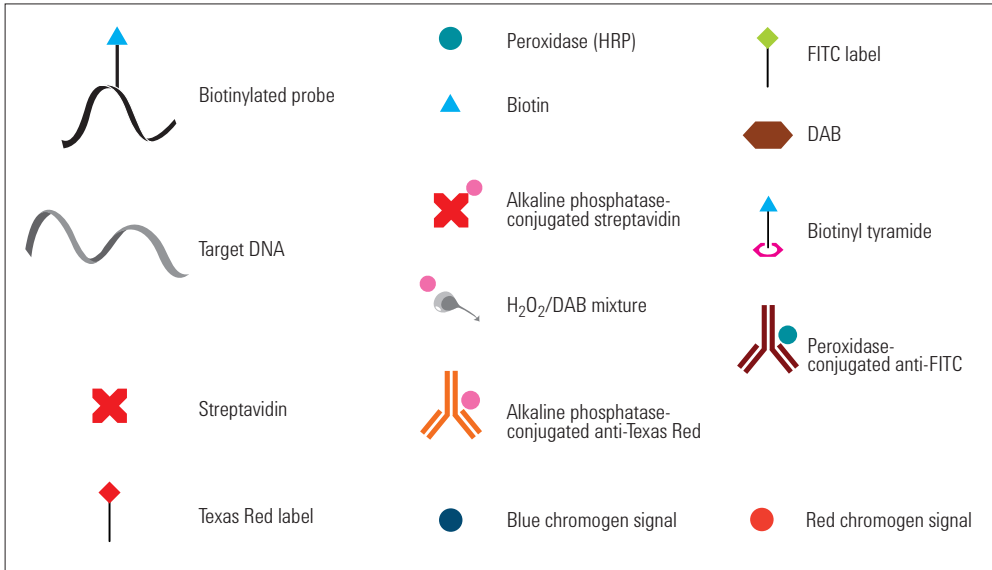
Experience the easy integration of PD-L1 in your IHC workflow

- Integrate PD-L1 IHC 28-8 pharmDx without changing staining lab workflow
- Ready-to-use reagents and cell line controls optimized for Autostainer Link 48
- Pre-programmed, validated protocol

Molecular Pathology

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Molecular Pathology



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 kit 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.

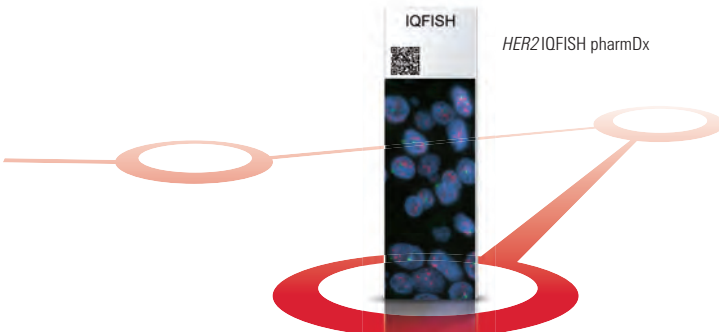
The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed outside a fume hood in just 60-120 minutes. The short hybridization time results in a turnaround time of about 4 hours for a complete FISH staining from deparaffinization to mounting.

* 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



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.

- **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

- **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

IVD	S2450	110-120 volt*	1 unit
IVD	S2451	200-240 volt**	1 unit

Hybridizer Humidity Control Strips

IVD	S2452	For the Hybridizer instrument	20 strips
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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 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

Humidity control strips stabilize internal moisture.

12-slide capacity with easy-to-use single-handed loading and unloading feature.



Hinged and sealable cover to retain moisture and prevent drying.

Programmable with up to 40 protocols by name.

* 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 and research 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 Kit

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

CISH Kit

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

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

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 trastuzumab (Herceptin[®]) was rationally developed to specifically target HER2-positive breast cancers. Demonstration of high HER2 overexpression or gene amplification is essential for treatment with trastuzumab (Herceptin[®]). Clinical studies have shown that patients whose tumors have high HER2 receptor overexpression and/or amplification benefit most from Herceptin[®] (1).

Pertuzumab (PERJETA[™]) is a recombinant humanized monoclonal antibody that binds to sub-domain II of the extracellular part of the HER2 protein thereby blocking its ability to form heterodimers with other members of the HER family, including HER1 (EGFR), HER3 and HER4. PERJETA[™] has shown to be effective and safe in the treatment of breast cancer patients with HER2 protein overexpression. During clinical studies of pertuzumab, HER2 overexpression was demonstrated directly by IHC or indirectly evidenced through correlation of *HER2* gene amplification to protein overexpression as demonstrated by FISH. However, in the randomized trial, data were available for a limited number of patients (8/808) for whom the FISH results were positive but the IHC results were negative (0, 1+) (2,3).

Ado-trastuzumab emtansine (KADCYLA[™]) is a novel antibody-drug conjugate specifically designed for the treatment of HER2-positive cancer. It is composed of the potent cytotoxic agent DM1 (a thiol-containing maytansinoid anti-microtubule agent) conjugated to trastuzumab via a linker molecule. Ado-trastuzumab emtansine binds to HER2 with an affinity similar to that of trastuzumab; such binding is required for its anti-tumor activity. It is hypothesized that after binding to HER2, ado-trastuzumab emtansine undergoes receptor-mediated internalization, followed by intracellular release of DM1 and subsequent cytotoxicity (4). A number of clinical studies have shown that ado-trastuzumab emtansine is effective and safe in treatment of HER2-positive breast cancer patients (5-8).

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 (9).

Pre-clinical data has showed that trastuzumab has significant antitumor activity in gastric cancer (10). 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 Herceptin[®] and *HER2* FISH pharmDx were used as initial screening tests, showed the added benefit of combining Herceptin[®] with standard chemotherapy (11).

Precaution for gastric cancer: HER2 protein overexpression and *HER2* gene amplification are not as correlated in gastric cancer as with breast cancer; therefore a single method should not be used to determine HER2 status.

Kits

HER2 IQFISH pharmDx is an FDA-approved Dako *HER2* diagnostic kit indicated as an aid in the assessment of *HER2* gene status.

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. Baselga J, Gelmon KA, Verma S, et al. Phase II trial of pertuzumab and trastuzumab in patients with human epidermal growth factor receptor 2-positive metastatic breast cancer that progressed during prior trastuzumab therapy. *J Clin Oncol* 2010;28:1138-44.
3. Baselga J, Cortés J, Kim SB, Im SA, Hegg R, Im YH, et al. Pertuzumab plus trastuzumab plus docetaxel for metastatic breast cancer. *N Engl J Med* 2012;366:109-19.
4. Lewis Phillips GD, Li G, Dugger DL, et al. Targeting HER2-positive breast cancer with trastuzumab-DM1, an antibody-cytotoxic drug conjugate. *Cancer Res* 2008;68:9280-90.
5. Krop IE, Beeram M, Modi S, et al. Phase I study of trastuzumab-DM1, an HER2 antibody-drug conjugate, given every 3 weeks to patients with HER2-positive metastatic breast cancer. *J Clin Oncol* 2010;28:2698-704.
6. Burris HA 3rd, Rugo HS, Vukelja SJ, et al. Phase II study of the antibody drug conjugate trastuzumab-DM1 for the treatment of human epidermal growth factor receptor 2 (HER2)-positive breast cancer after prior HER2-directed therapy. *J Clin Oncol* 2011;29:398-405.
7. Krop IE, Lorusso P, Miller KD, et al. A phase II study of trastuzumab emtansine in patients with human epidermal growth factor receptor 2-positive metastatic breast cancer who were previously treated with trastuzumab, lapatinib, an anthracycline, a taxane, and capecitabine. *J Clin Oncol* 2012;30:3234-41.
8. Verma S, Miles D, Gianni L, Krop IE, Welslau M, Baslega J, et al. Trastuzumab emtansine for HER2-positive advanced breast cancer. *New Engl J Med* 2012;367:1783-91.
9. Tanner M, Hollmén M, Junttila TT, Kapanen AI, Tommola S, Soini Y, et al. Amplification of *HER-2* in gastric carcinoma: association with *Topoisomerase II α* gene amplification, intestinal type, poor prognosis and sensitivity to trastuzumab. *Ann Oncol* 2005;16:273-8.
10. 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.
11. 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 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.

HER2 IQFISH pharmDx

IVD K5731

20 tests

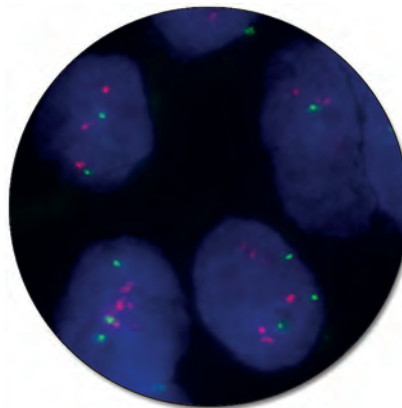
HER2 IQFISH pharmDx is a direct fluorescence in situ hybridization (FISH) assay based on Dako's new fast IQISH hybridization buffer chemistry. The IQISH hybridization buffer is non-toxic and allows genomic DNA probe hybridization to be performed in just 60-120 minutes. The short hybridization time results 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 metastatic gastric or gastroesophageal junction adenocarcinoma. 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).

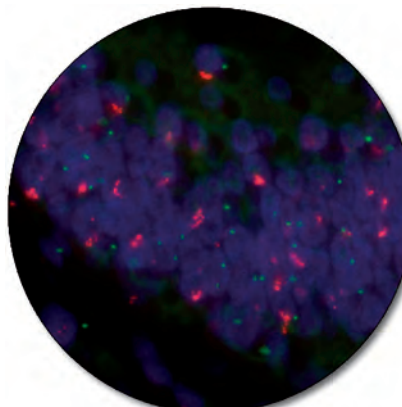
HER2 IQFISH pharmDx is indicated as an aid in the assessment of breast and gastric cancer patients for whom Herceptin® treatment is being considered and for breast cancer patients for whom PERJETA™ or KADCYLA™ treatment is being considered (see Herceptin®, PERJETA™, and KADCYLA™ package inserts). For breast cancer patient, 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 assays. 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 (HER2/CEN-17 ratio ≥ 2).



Gastric cancer (FFPE) stained with HER2 IQFISH pharmDx, Code K5731. Tumor cells show HER2 gene amplification (HER2/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

HER2 CISH pharmDx Kit

IVD SK109

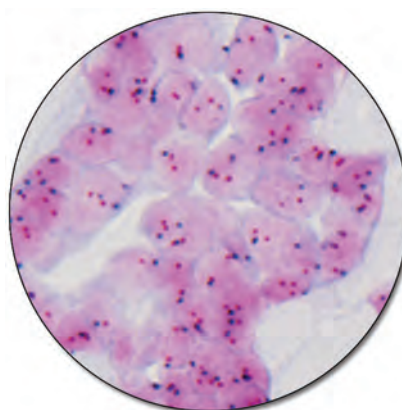
20 tests

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).

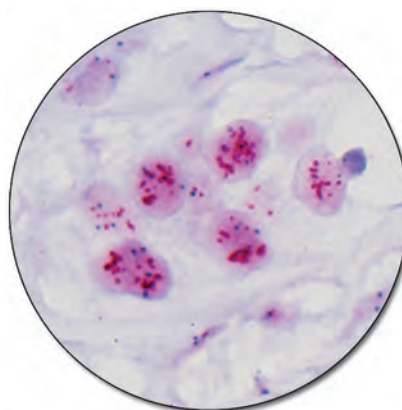
HER2 CISH pharmDx Kit is indicated as an aid in the assessment of patients for whom Herceptin treatment is being considered. Results from the *HER2* CISH pharmDx are intended for use as an adjunct to the information currently used for estimating prognosis in stage II, node-positive breast cancer patients.

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 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

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.

Normal Somatic Cells



Normal Germ Cells or Cancer Cells



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
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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.

Fluorochrome-Conjugated Probes

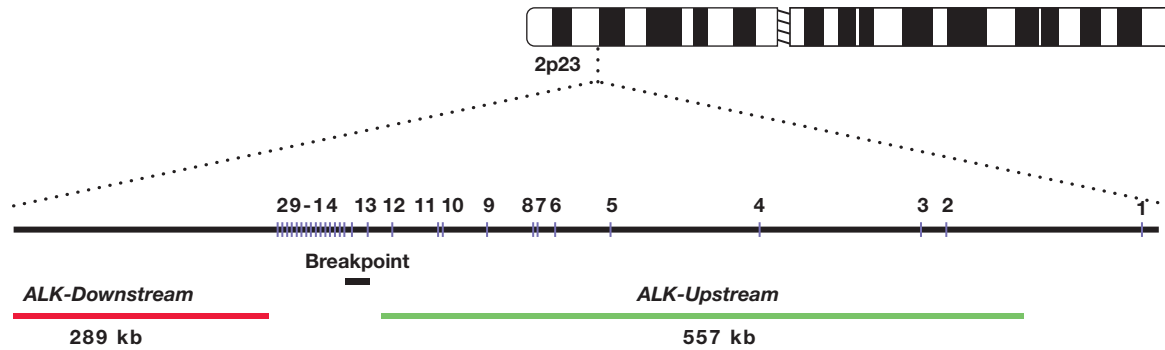
ALK DNA Probe, Fluorochrome-Conjugated

ASR Y5417

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 based on a combination of DNA and PNA technology, and contains a two-part fluorochrome-conjugated DNA probe and unlabeled PNA blocking probes. The fluorochrome-conjugated DNA probe

is 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.



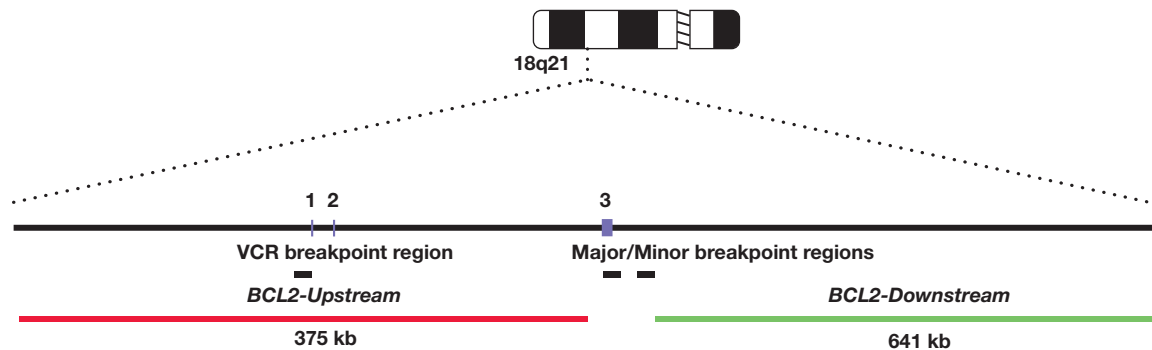
BCL2 DNA Probe, Fluorochrome-Conjugated

ASR Y5407

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 based on a combination of DNA and PNA technology, and contains a two-part fluorochrome-conjugated DNA probe and unlabeled PNA blocking probes. The fluorochrome-conjugated DNA

probe is 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.



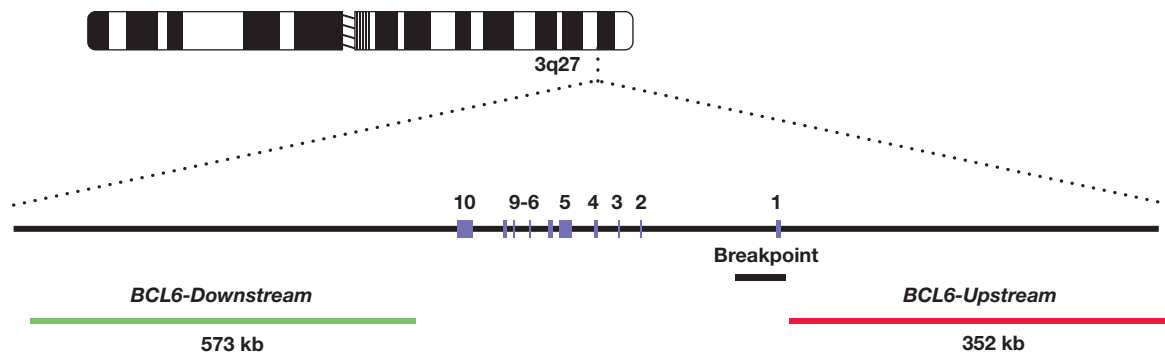
BCL6 DNA Probe, Fluorochrome-Conjugated

ASR Y5408

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 based on a combination of DNA and PNA technology, and contains a two-part fluorochrome-conjugated DNA probe and unlabeled PNA blocking probes. The fluorochrome-conjugated DNA probe

is 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.



Fluorochrome-Conjugated Probes (continued)

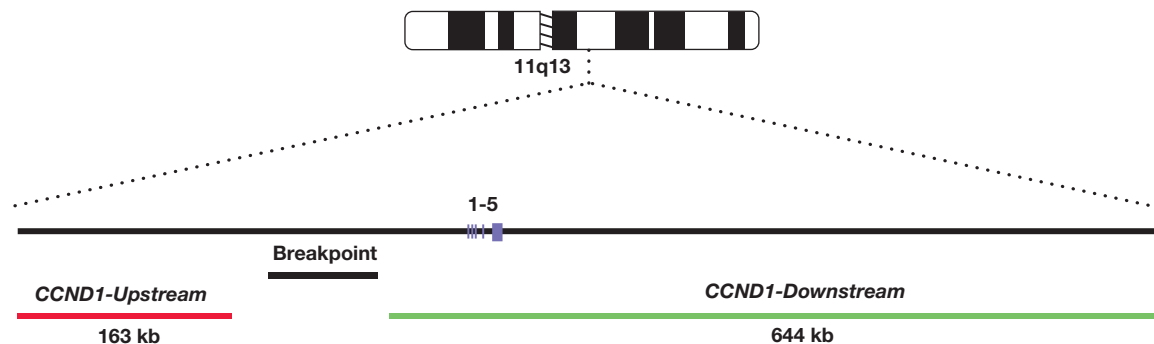
CCND1 DNA Probe, Fluorochrome-Conjugated

ASR Y5414

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 based on a combination of DNA and PNA technology, and contains a two-part fluorochrome-conjugated DNA probe and unlabeled PNA blocking probes. The fluorochrome-conjugated DNA

probe is 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.



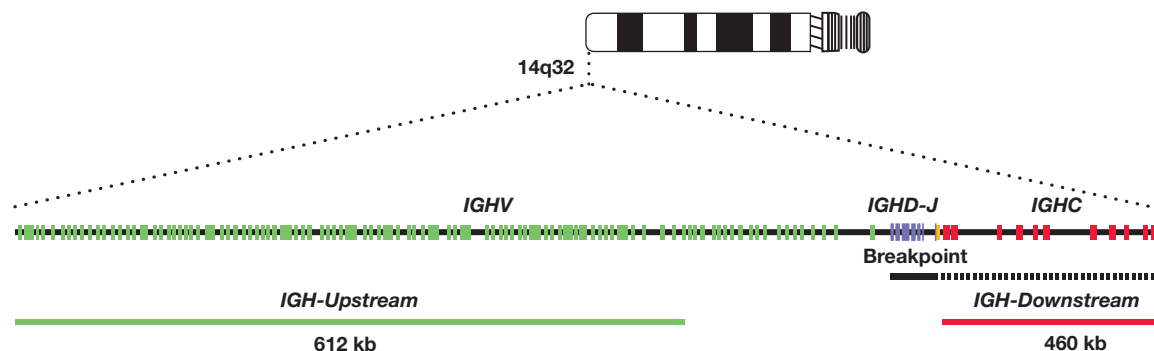
IGH DNA Probe, Fluorochrome-Conjugated

ASR Y5406

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 based on a combination of DNA and PNA technology, and contains a two-part

fluorochrome-conjugated DNA probe and unlabeled PNA blocking probes. The fluorochrome-conjugated DNA probe is 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.



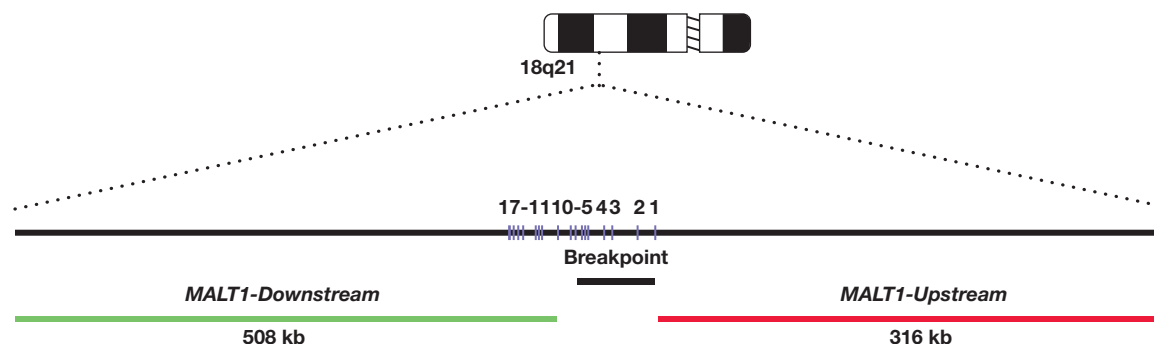
MALT1 DNA Probe, Fluorochrome-Conjugated

ASR Y5409

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 based on a combination of DNA and PNA technology, and contains a two-part fluorochrome-conjugated DNA probe and unlabeled PNA blocking probes. The fluorochrome-conjugated DNA

probe is 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.



Fluorochrome-Conjugated Probes (continued)

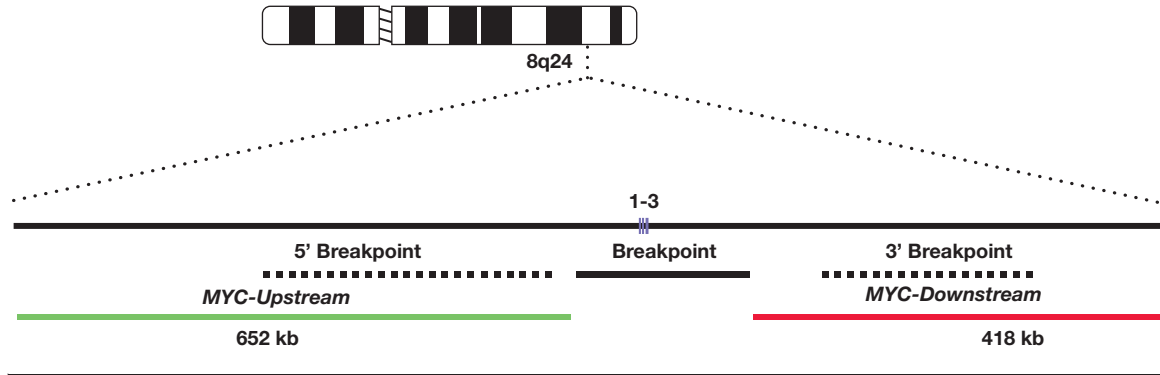
MYC DNA Probe, Fluorochrome-Conjugated

ASR Y5410

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 based on a combination of DNA and PNA technology, and contains a two-part fluorochrome-conjugated DNA probe and unlabeled PNA blocking probes. The fluorochrome-conjugated DNA probe

is 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.



SureFISH ALK/RET/ROS1 Probes

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

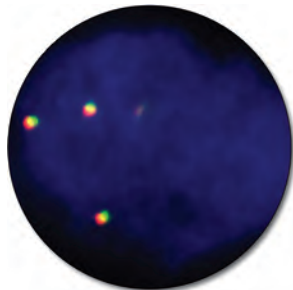
ASR	G111200	P5, SureFISH	NEW	5 µL
ASR	G111400	P20, SureFISH	NEW	20 µL
ASR	G211400	P20 x 6, SureFISH	NEW	20 µL, 6 vials
ASR	G111900	P200	NEW	200 µL

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

ROS1 BA

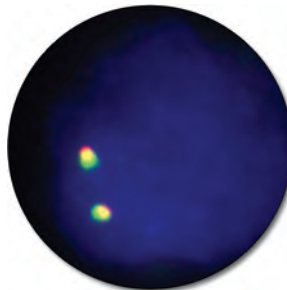
ASR	G111201	P5, SureFISH	NEW	5 µL
ASR	G111401	P20, SureFISH	NEW	20 µL
ASR	G211401	P20 x 6, SureFISH	NEW	20 µL, 6 vials
ASR	G111901	P200, SureFISH	NEW	200 µL

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

RET BA

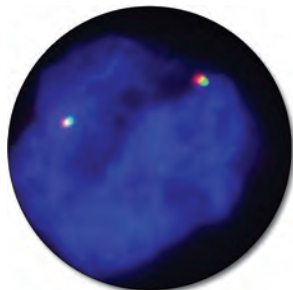
ASR	G111202	P5, SureFISH	NEW	5 µL
ASR	G111402	P20 x 6, SureFISH	NEW	20 µL
ASR	G211402	P20 x 6, SureFISH	NEW	20 µL, 6 vials
ASR	G111902	P200	NEW	200 µL

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 probes are manufactured by Agilent Technologies, Inc.

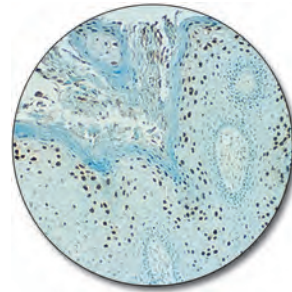
GenPoint Amplified Signal Detection System

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.

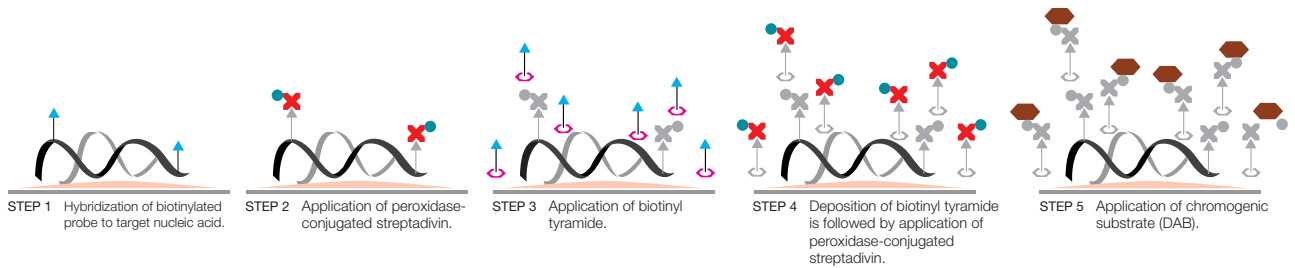
Further Information

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.



GenPoint, Catalyzed Signal Amplification System*

IVD K0620 For in situ hybridization 65 tests

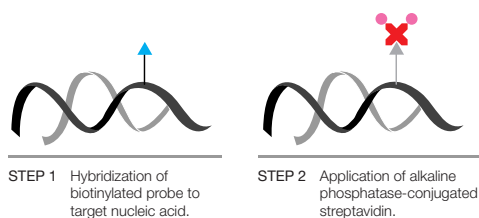
The GenPoint™ system locates target sites hybridized with biotinylated nucleic acid probes with high sensitivity and resolution. The kit includes stringent wash concentrate, peroxidase-conjugated streptavidin, biotinyl tyramide, and diaminobenzidine (DAB) chromogenic substrate.

* Dako GenPoint embodies technology developed by and licensed from NEN Life Science Products, Inc. (U.S. Patent 5,196,306).
Limited Use Licence

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.



In Situ Hybridization Detection System

IVD 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 μ L of reagent per slide.

PNA Probes and Detection System

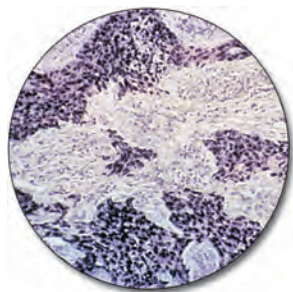
Hybridization techniques are used to localize and identify specific nucleic acid sequences. Initially used as a research tool, the development of non-radioactive probe labeling and detection systems has made this technology available to a wide variety of routine applications. Traditionally either cloned 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 $^{\circ}$ 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 (EBV) PNA Probe/Fluorescein

RUO Y5200 40 tests, 1 mL

Epstein-Barr Virus (EBV) PNA Probe/Fluorescein detects the 2 nuclear RNA transcripts EBER1 and EBER2 encoded by Epstein-Barr virus. The product contains a mixture of 4 fluorescein-labeled PNA probes complementary to parts of the 2 nuclear EBER RNAs.



Nasopharyngeal carcinoma stained with EBV (EBER) PNA Probe/FITC, Code Y5200, and PNA ISH Detection Kit, Code K5201.

PNA ISH Detection Kit

IVD K5201 40 tests

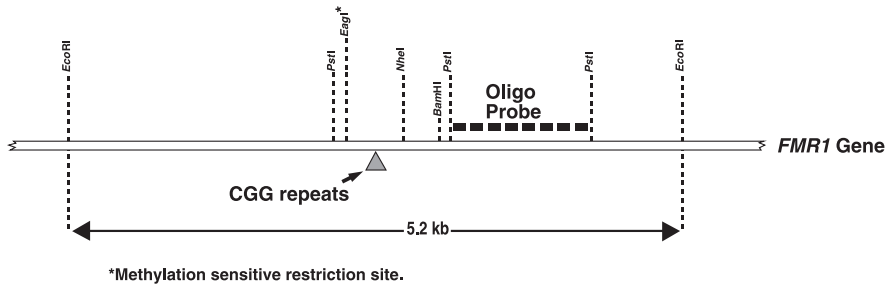
PNA ISH Detection Kit for fluorescein-labeled peptide nucleic acid (PNA) probes contains all reagents necessary for performing an in situ hybridization, except for the specific probe. The kit contains proteinase K, negative and positive control probes, stringent wash solution, alkaline phosphatase-conjugated 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 μ L of reagent per slide.

Fragile X Probe

Fragile X Probe, Fluorescein-Labeled

ASR Y1442

5 blots x 150 cm²



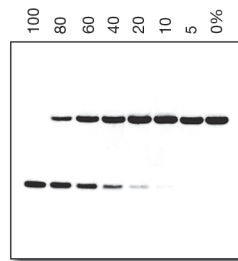
Blotting Detection System

Chemiluminescent System for Nucleic Acid Blotting

Chemiluminescent System for Nucleic Acid Blotting is a complete kit for the detection of Southern or Northern blot hybridizations using fluorescein-labeled probes. Hybridized probes are detected by incubation with an alkaline phosphatase-conjugated antibody fragment directed against fluorescein. The immobilized alkaline phosphatase activity is used to hydrolyze a chemiluminescent dioxetane-phosphate substrate, resulting in sustained light emission at the site of the hybridized probe. The light emitted from the blot is captured by overlaying the blot with photographic film, or by imaging using a sensitive CCD camera system.

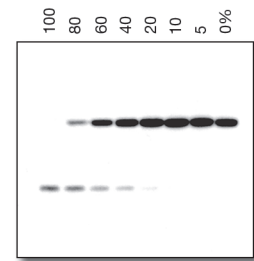
Special features of the Dako Chemiluminescent System:

- Non-radioactive reagents (health and disposal issues eliminated)
- Exposure time reduced to minutes as opposed to days using the ³²P-method
- Complete with all necessary detection reagents in either liquid concentrates or pre-measured powder packets for convenience
- Uses standard film and processing equipment



Fluorescein-labeled IGHJ6 probe and chemiluminescence. Percentages represent the fraction of tumor cell DNA mixed with normal mononuclear cell DNA.

Exposure time: minutes



³²P-labeled IGHJ6 probe and autoradiography. Percentages represent the fraction of tumor cell DNA mixed with normal mononuclear cell DNA.

Exposure time: days

Detection System

Chemiluminescent System for Nucleic Acid Blotting

K0626

20 blots x 150 cm²

Included in the kit are: Blocking solution, wash buffer, alkaline phosphatase-conjugated anti-FITC, chemiluminescent substrate, and detailed instructions.

Ancillaries

Hybridization Buffer

S1801

250 mL

SSC Stringent Wash for Oligo (short) Probes

S1803

5 pk

Dako Omnis

Fluorescence Mounting Medium (Dako Omnis)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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)

IVD 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

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

IVD 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

IVD 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*

G9415A	Hybridization Buffer 200	NEW	200 µL
G9416A	Hybridization Buffer 200 x 6	NEW	200 µL x 6
G9414A	Hybridization Buffer 900	NEW	900 µL

* Manufactured by Agilent Technologies, Inc.

H&E Solution

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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

IVD 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.



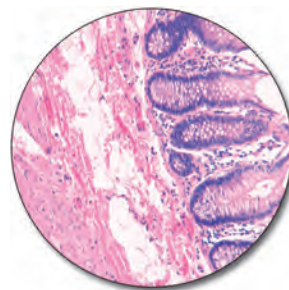
Hardware Specifications

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/coverlips 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/coverlip 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.



Ancillaries and Accessories (continued)

Bluing Buffer, Dako

IVD 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

IVD 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

IVD 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

IVD 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

IVD 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

IVD CS705 Ready-to-use 500 mL

Dako Toluene-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

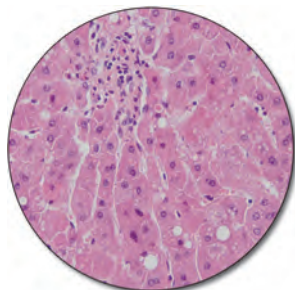
CS119 Slide racks, each holding 10 glass slides **NEW** 10 racks

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)

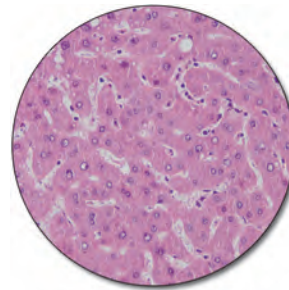
DL412 Label printer 1 unit

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

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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 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

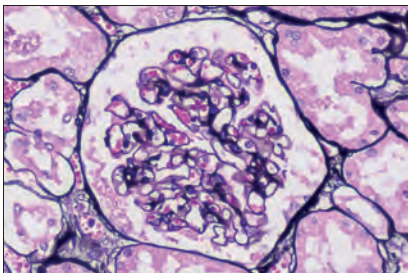
- **Artisan Reagents**

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

IVD 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

Artisan Link 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

IVD AR171 50 tests/100 tests

Clearing Solution, Artisan

IVD 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

IVD AR102 Concentrated 4 x 200 mL, 50x concentrated

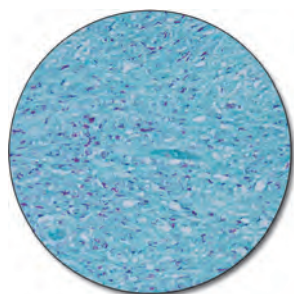
Artisan Link and Link Pro Special Stains

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.

Acid-Fast Bacteria (AFB) Light Green Stain Kit, Artisan

IVD 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.

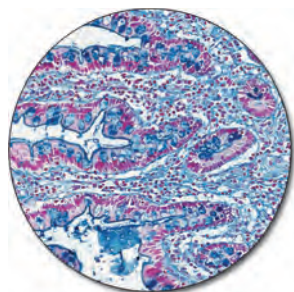


Colon stained with AFB Light Green, Code AR362.

Colloidal Iron Stain Kit, Artisan

IVD 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.



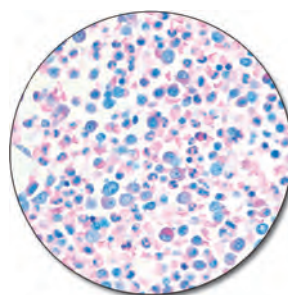
Small intestine stained with Colloidal Iron, Code AR307.

The special stains kits in this section are for Artisan Link and Link Pro Special Staining Systems only. Not for use on Artisan Classic.

Giemsa Stain Kit (Jenner-Wright), Artisan

IVD 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.

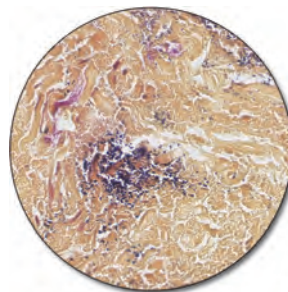


Bone marrow stained with Jenner-Wright Giemsa, Code AR308.

Gram Yellow Stain Kit, Artisan

IVD 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.



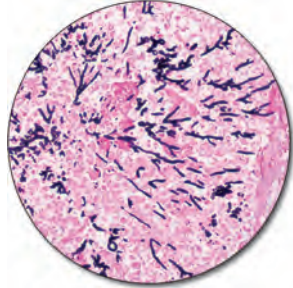
Skin stained with Gram Yellow, Code AR306.

Artisan Link and Link Pro Special Stains (continued)

Grocott's Methenamine Silver (GMS) Eosin Stain Kit, Artisan

IVD 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.

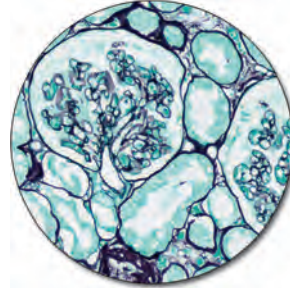


Lung stained with GMS Eosin, Code AR376.

Jones' Basement Membrane (PAS-M) Light Green Stain Kit, Artisan

IVD 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 μ m 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.

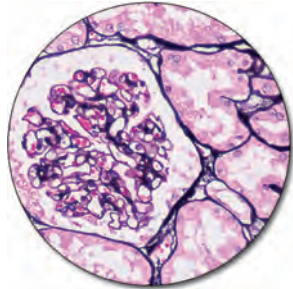


Kidney stained with PAS-M Light Green, Code AR380.

Jones' Basement Membrane (PAS-M) H&E Stain Kit, Artisan

IVD 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 μ m 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.

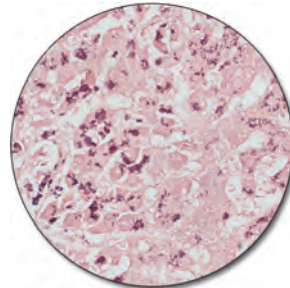


Kidney stained with PAS-M H&E, Code AR480.

Orcein Stain Kit, Artisan

IVD 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.

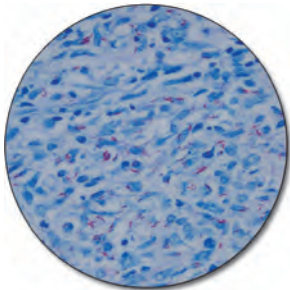
Artisan Special Stains

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.

Acid-Fast Bacteria (AFB) Stain Kit, Artisan

IVD 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.

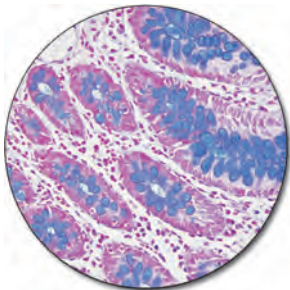


Colon stained with AFB, Code AR162.

Alcian Blue pH 2.5 Stain Kit, Artisan

IVD 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.



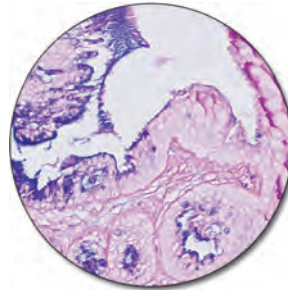
Small intestine stained with Alcian Blue pH 2.5, Code AR160.

The Special Stains kits in this section are suitable for all versions of Artisan, i.e. Artisan Link Pro, Artisan Link and Artisan Classic.

Alcian Blue/PAS Stain Kit, Artisan

IVD 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, Alcian Alpha-Amylase (Code AR171), for the demonstration of glycogen in tissue.

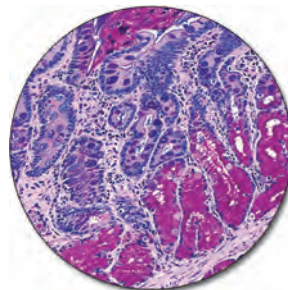


Small intestine stained with Alcian Blue/PAS, Code AR169.

Alcian Blue/PAS/Hematoxylin Stain Kit, Artisan

IVD 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.

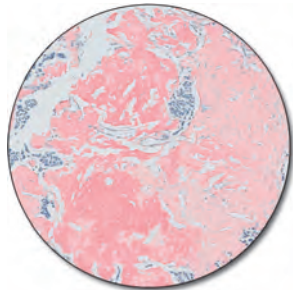


Large intestine stained with Alcian Blue/PAS/Hematoxylin, Code AR178.

Artisan Special Stains (continued)

Congo Red Stain Kit, Artisan

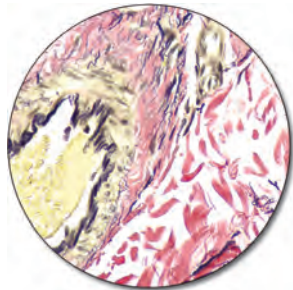
IVD AR161 Ready-to-use 50 tests/100 tests
Congo Red Stain Kit is used to identify amyloid in tissue sections on Artisan Link and Artisan Link Pro Staining Systems. Amyloid is an abnormal protein product that can be found in various pathologic conditions. This stain demonstrates amyloid in pink to dark 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 μ m thick tissue sections



Amyloid stained with Congo Red, Code AR161.

Elastic Stain Kit, Artisan

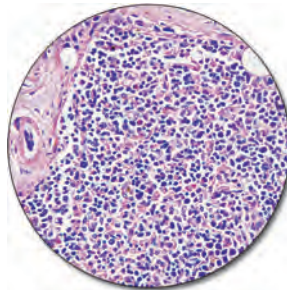
IVD AR163 Ready-to-use 50 tests/100 tests
Elastic Stain Kit is used to identify elastin fibers in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. This stain utilizes Alcoholic Hematoxylin, Ferric Chloride and Lugol's Iodine solutions to stain elastin fibers. Van Gieson's solution 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

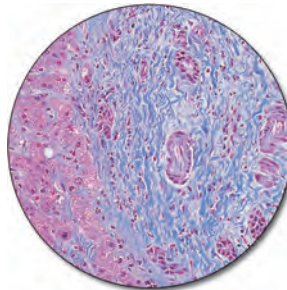
IVD AR164 Ready-to-use 50 tests
Giemsa Stain Kit is typically used to identify hematopoietic cells (i.e. mast cells, basophils, polymorphonuclear leucocytes, etc.) in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. In tissue specimens it will stain mast cells, which may be 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

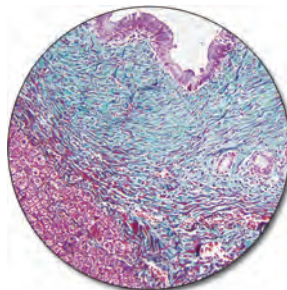
IVD AR167 Ready-to-use 50 tests
Gomori's Blue Trichrome Stain Kit is used to identify collagen fibers in liver and kidney tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Gomori's Blue Trichrome Stain is often used to demonstrate increased collagen deposition that is associated with replacement of functional tissue by scar tissue. This stain is useful in the 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 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

IVD 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.

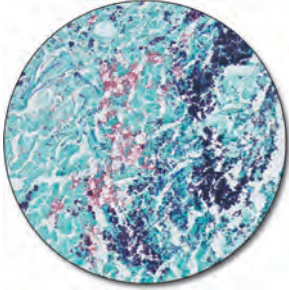


Intestine stained with Gomori's Green, Code AR166.

Artisan Special Stains (continued)

Gram Stain Kit, Artisan

IVD AR175 Ready-to-use 50 tests/100 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

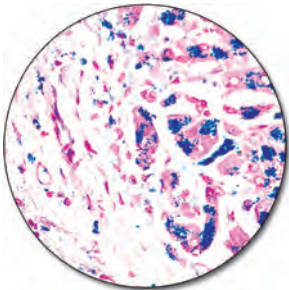
IVD AR176 Ready-to-use 50 tests/100 tests
Grocott's Methenamine Silver (GMS) Stain Kit is intended to identify fungal organisms and *Pneumocystis jirovecii* (formerly known as *carinii*) in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Fungi and *Pneumocystis jirovecii* are 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

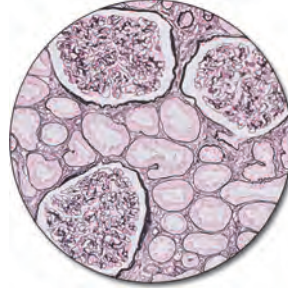
IVD AR158 Ready-to-use 50 tests/100 tests
Iron Stain Kit is used to identify iron pigment in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Iron is an important component of the human body, especially as a vital constituent of oxygen carrying hemoglobin. Iron is stored in 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 hemochromatosis. 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

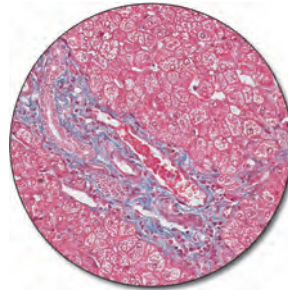
IVD AR180 Ready-to-use 50 tests/100 tests
Jones' Basement Membrane Stain Kit is used to identify basement membranes, specifically glomerular and tubular basement membranes in renal tissue sections cut at 2 μ m on the Artisan Link and Artisan Link Pro Staining Systems. The Bowman's capsule: black, inner 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

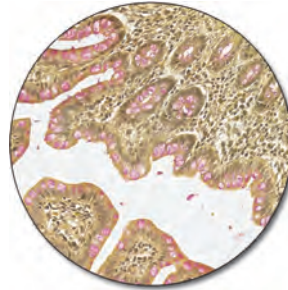
IVD AR173 Ready-to-use 50 tests/100 tests
Masson's Trichrome Stain Kit is used to identify muscle, collagen fibers, fibrin and erythrocytes in tissue sections on the Artisan Link and Artisan Link Pro Staining Systems. Masson's Trichrome is often used to demonstrate increased collagen deposition that 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

IVD 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.

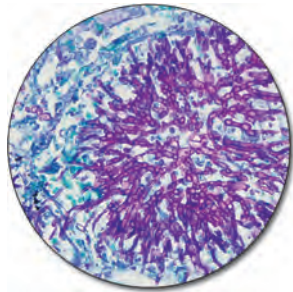
Artisan Special Stains (continued)

PAS-Green Stain Kit, Artisan

IVD 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.



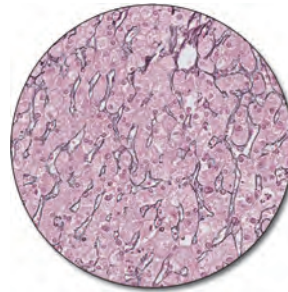
Skin stained with PAS-Green, Code AR172.

Reticulin/Nuclear Fast Red Stain Kit, Artisan

IVD AR179 Ready-to-use

50 tests/100 tests

Reticulin/Nuclear Fast Red 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.



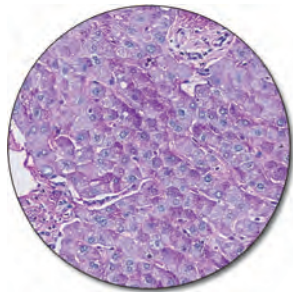
Liver stained with Reticulin/NFR, Code AR179.

Periodic Acid-Schiff (PAS) Stain Kit, Artisan

IVD 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.

Warthin-Starry Stain Kit, Artisan

IVD AR181 Ready-to-use

50 tests/100 tests

Warthin-Starry Stain Kit is used to identify *Helicobacter pylori*, 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.



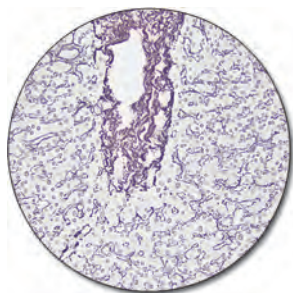
Helicobacter stained with Warthin-Starry, Code AR181.

Reticulin/No Counterstain Stain Kit, Artisan

IVD 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.

Dako Academy

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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, US

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 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 relevant, 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 to approved 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

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:

- Pharmacodiagnosics overview
- Review of kit components and protocols
- Hands-on laboratory sessions utilizing the Autostainer Link 48, Autostainer Plus or manual staining
- Troubleshooting

Length: One day (immunohistochemistry)
Two days (in situ hybridization)

FISH/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:

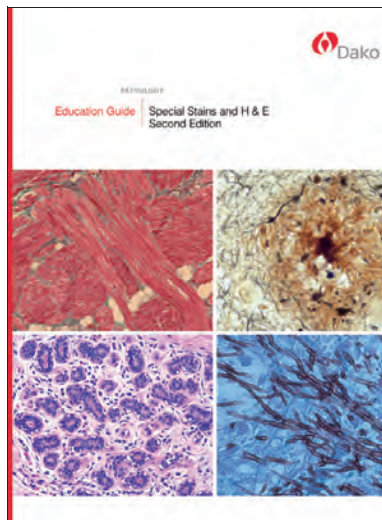
- Lecture component covers molecular pathology theory, denaturation, hybridization and detection
- The laboratory sessions include manual as well as automated hybridization, and methods for detection of hybridized probes

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
- FLEX RTU Atlas of Stains, Fourth Edition
- Atlas of Special Stains
- PD-L1 IHC 22C3 pharmDx
- PD-L1 IHC 28-8 pharmDx

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
- 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 Dako manuals will quickly provide the information for which you are looking.

- User Guides
- Quick Start Guides
- Handbooks

White Papers, Reviews, Studies and Webinar

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

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 with *HER2* CISH pharmDx Kit.

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

e-Learning (continued)

PD-L1 IHC 22C3 pharmDx Pathology Training Program

The Dako PD-L1 IHC 22C3 pharmDx pathology training program uses in-depth content, engaging activities, and comprehensive cases to help you confidently:

The e-Learning program includes:

- Understand the core principles of PD-L1 pathology
- Learn the process for evaluating stained images for PD-L1 expression
- Recognize confounding considerations that affect PD-L1 scoring
- Score and interpret images for PD-L1 expression across a variety of patient samples

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

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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.

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

Instrument Services include:

- Planned Maintenance
- Corrective Maintenance
- Software Upgrades

activities, and at the same time you can be sure that your instrument is always running at peak performance.

Corrective Maintenance

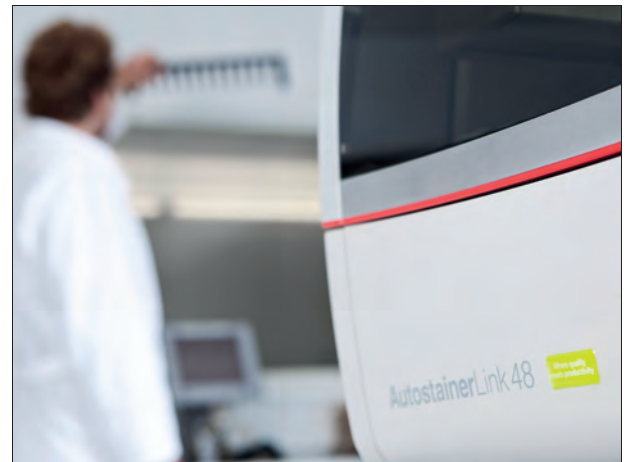
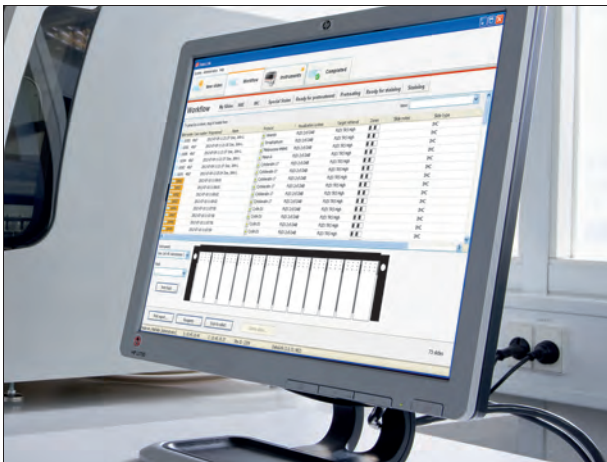
Corrective Maintenance offers you the security that your laboratory requires in the event of any unforeseen problems. Our Service Engineers have excellent troubleshooting expertise that includes both fluidics and

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.

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.

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,

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

Application and Technical Support include:

- Protocol Optimization
- Protocol Design
- Product Demonstrations

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.

Denmark or you can just send us your slides directly and we will optimize your protocols to your satisfaction.

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

General Product Information

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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.

Polyclonal Antibodies

Since 1966 we have produced a continually widening range of polyclonal antibodies. An extensive knowledge of protein chemistry and immunology, 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.

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 available on www.dako.com.

The products require no hazard labeling.

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 unconjugated 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 immunohistochemistry, 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.

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

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.

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. *Immunocytochemistry* 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 $A_{495\text{ nm}}/A_{278\text{ nm}}$, 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 immunoelectrophoresis 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.

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.

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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 244-245.

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

Code	Source	Product	See Page
		A	
AR162		Acid-Fast Bacteria (AFB) Stain Kit, Artisan (50 Tests/100 Tests)	194
AR362		Acid-Fast Bacteria (AFB) Light Green Stain Kit, Artisan (50 Tests)	192
M0635	Mo a Hu	Actin (Muscle) , Clone HHF35	73
IR700	Mo a Hu	Actin (Muscle) , Clone HHF35, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 73
IS700	Mo a Hu	Actin (Muscle) , Clone HHF35, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 73
M0874	Mo a	Actin (Sarcomeric) , Clone Alpha-Sr-1	73
M0851	Mo a Hu	Actin (Smooth Muscle) , Clone 1A4	73
IR611	Mo a Hu	Actin (Smooth Muscle) , Clone 1A4, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 73
IS611	Mo a Hu	Actin (Smooth Muscle) , Clone 1A4, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 73
		Adhesion Molecule-1 , see: CD31, Endothelial Cell	
M3501	Mo a	Adrenocorticotropin (ACTH) , Clone O2A3	73
K4069		ADVANCE/HRP, Rabbit/Mouse (55 Tests)	61 132
K4068		ADVANCE/HRP, Rabbit/Mouse (550 Tests)	61 132
K3464		AEC Substrate-Chromogen , Ready-to-Use (1100 Tests)	133
K3461		AEC+ Substrate-Chromogen , Ready-to-Use (150 Tests)	54 133
K3469		AEC+ Substrate-Chromogen , Ready-to-Use (1100 Tests)	54 133
		AFP , see: Alpha-1-Fetoprotein	
M3628	Rb a Hu	Akt-pS473, Phosphorylation Site Specific , Clone 14-5	73
F0117	Rb a Hu	Albumin/FITC	73
AR178		Alcian Blue/PAS/Hematoxylin Stain Kit, Artisan (50 Tests/100 Tests)	194
AR160		Alcian Blue, pH 2.5, Stain Kit, Artisan (50 Tests/100 Tests)	194
AR169		Alcian Blue/PAS Stain Kit, Artisan (50 Tests/100 Tests)	194
Y5417		ALK DNA Probe, Fluorochrome-Conjugated	172
G111200		ALK BA P5, SureFISH	175
G111400		ALK BA P20, SureFISH	175
G211400		ALK BA P20 x 6, SureFISH	175
G111900		ALK BA P200, SureFISH	175
		ALK Protein , see: CD246, ALK Protein	
		Alkaline Phosphatase and Peroxidase-Blocking Reagent , see: Dual Endogenous Enzyme Block	
A0008	Rb a Hu	Alpha-1-Fetoprotein	73 117
GA500	Rb a Hu	Alpha-1-Fetoprotein , Ready-to-Use, FLEX, for Dako Omnis	26 73
IR500	Rb a Hu	Alpha-1-Fetoprotein , Ready-to-Use, FLEX, for Autostainer Link Instruments	41 73
IS500	Rb a Hu	Alpha-1-Fetoprotein , Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 73
AR171		Alpha-Amylase Stain Kit, Artisan (50 Tests/100 Tests)	191
		Alpha-Methylacyl-Coenzyme A Racemase , see: AMACR	
M3616	Rb a Hu	AMACR , Clone 13H4	74
GA060	Rb a Hu	AMACR , Clone 13H4, Ready-to-Use, FLEX, for Dako Omnis	26 74
IR060	Rb a Hu	AMACR , Clone 13H4, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 74
IS060	Rb a Hu	AMACR , Clone 13H4, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 74
IC004	a Hu	AMACR + Cytokeratin HMW + Cytokeratin 5/6 , Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	115
M3562	Mo a Hu	Androgen Receptor , Clone AR441	74
K3954		Animal Research Kit (ARK)/HRP (150 Tests)	132
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		Antigen Retrieval , see: Target Retrieval	
K3954		ARK (Animal Research Kit)/HRP (150 Tests)	132
		Artisan Accessories	191
AR310		Artisan Link Pro Special Staining System	189

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AS480		Autostainer Link 48	21 35 35 37
S3424		Autostainer Reagent Racks	54
S3425		Autostainer Reagent Vials	54
S3704		Autostainer Slide Racks (4 Racks)	54
		B	
M7307	Mo a Hu	B-Cell-Specific Activator Protein , Clone DAK-Pax-5	74
GA650	Mo a Hu	B-Cell-Specific Activator Protein , Clone DAK-Pax5, Ready-to-Use, FLEX, for Dako Omnis	26 74
IR650	Mo a Hu	B-Cell-Specific Activator Protein , Clone DAK-Pax5, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 74
IS650	Mo a Hu	B-Cell-Specific Activator Protein , Clone DAK-Pax5, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 74
K0598		BCIP/NBT Substrate System (150 Tests)	133
Y5407		BCL2 DNA Probe, Fluorochrome-Conjugated	172
M0887	Mo a Hu	BCL2 Oncoprotein , Clone 124	74
IR614	Mo a Hu	BCL2 Oncoprotein , Clone 124, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 74
IS614	Mo a Hu	BCL2 Oncoprotein , Clone 124, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 74
Y5408		BCL6 DNA Probe, Fluorochrome-Conjugated	172
M7211	Mo a Hu	BCL6 Protein , Clone PG-B6p	75
GA625	Mo a Hu	BCL6 Protein , Clone PG-B6p, Ready-to-Use, FLEX, for Dako Omnis	26 75
IR625	Mo a Hu	BCL6 Protein , Clone PG-B6p, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 75
IS625	Mo a Hu	BCL6 Protein , Clone PG-B6p, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 75
M7260	Mo a Hu	BCL10 Protein , Clone 151	75
M0872	Mo a Hu	Beta-Amyloid , Clone 6F/3D	75
M3539	Mo a Hu	Beta-Catenin , Clone β -Catenin-1	75
GA702	Mo a Hu	Beta-Catenin , Clone β -Catenin-1, Ready-to-Use, FLEX, for Dako Omnis	26 75
IR702	Mo a Hu	Beta-Catenin , Clone β -Catenin-1, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 75
IS702	Mo a Hu	Beta-Catenin , Clone β -Catenin-1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 75
X0590		Biotin-Blocking System	134
CS702		Bluing Buffer, Dako , for Dako CoverStainer	185
M0744	Mo a	Bromodeoxyuridine , Clone Bu20a	75
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S3306		Buffer, Tris-NaCl Solution with Tween 20, pH 7.6	134
S1968		Buffer, Tris-Saline, pH 7.6	134
S3001		Buffer, Tris-Saline, pH 7.6	134
S3006		Buffer, Wash (10x) , for Immunohistochemistry	54 134
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		C	
F0254	Rb a Hu	C1q Complement/FITC	75
F0201	Rb a Hu	C3c Complement/FITC	75
F0169	Rb a Hu	C4c Complement/FITC	75
M3517	Mo a Hu	CA 19-9 , Clone 1116-NS-19-9	76
M3520	Mo a Hu	CA 125 , Clone M11	76
GA701	Mo a Hu	CA 125 , Clone M11, Ready-to-Use, FLEX, for Dako Omnis	26 76
IR701	Mo a Hu	CA 125 , Clone M11, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 76
IS701	Mo a Hu	CA 125 , Clone M11, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 76
		Cadherin , see: E-Cadherin and N-Cadherin	
A0576	Rb a Hu	Calcitonin	76
GA515	Rb a Hu	Calcitonin , Ready-to-Use, FLEX, for Dako Omnis	26 76
IR515	Rb a Hu	Calcitonin , Ready-to-Use, FLEX, for Autostainer Link Instruments	41 76
IS515	Rb a Hu	Calcitonin , Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 76
M3557	Mo a Hu	Caldesmon , Clone h-CD	76
GA054	Mo a Hu	Caldesmon , Clone h-CD, Ready-to-Use, FLEX, for Dako Omnis	26 76
IR054	Mo a Hu	Caldesmon , Clone h-CD, Ready-to-Use, FLEX, for Autostainer Link Instruments	42 76
IS054	Mo a Hu	Caldesmon , Clone h-CD, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 76
		CALLA , see: CD10	
M3556	Mo a Hu	Calponin , Clone CALP	77
		Calprotectin , see: Myeloid/Histiocyte Antigen	
M7245	Mo a Hu	Calretinin , Clone DAK-Calret 1	77
IR627	Mo a Hu	Calretinin , Clone DAK-Calret 1, Ready-to-Use, FLEX, for Autostainer Link Instruments	42 77
IS627	Mo a Hu	Calretinin , Clone DAK-Calret 1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 77
M7072	Mo a Hu	Carcinoembryonic Antigen , Clone II-7	77
GA622	Mo a Hu	Carcinoembryonic Antigen , Clone II-7, Ready-to-Use, FLEX, for Dako Omnis	26 77
IR622	Mo a Hu	Carcinoembryonic Antigen , Clone II-7, Ready-to-Use, FLEX, for Autostainer Link Instruments	42 77
IS622	Mo a Hu	Carcinoembryonic Antigen , Clone II-7, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 77

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Code	Source	Product	See Page
GA526	Rb a Hu	Carcinoembryonic Antigen , Ready-to-Use, FLEX, for Dako Omnis	26 77
IR526	Rb a Hu	Carcinoembryonic Antigen , Ready-to-Use, FLEX, for Autostainer Link Instruments	42 77
IS526	Rb a Hu	Carcinoembryonic Antigen , Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 77
K1500		Catalyzed Signal Amplification (CSA) System (150 Tests)	132
K1497		Catalyzed Signal Amplification (CSA) System II, Biotin Free (150 Tests)	132
Y5414		CCND1 DNA Probe, Fluorochrome-Conjugated	173
M3571	Mo a Hu	CD1a , Clone 010	77
IR069	Mo a Hu	CD1a , Clone 010, Ready-to-Use, FLEX, for Autostainer Link Instruments	42 77
IS069	Mo a Hu	CD1a , Clone 010, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 77
M7309	Mo a Hu	CD2 , Clone AB75	78
GA651	Mo a Hu	CD2 , Clone AB75, Ready-to-Use, FLEX, for Dako Omnis	27 78
IR651	Mo a Hu	CD2 , Clone AB75, Ready-to-Use, FLEX, for Autostainer Link Instruments	42 78
IS651	Mo a Hu	CD2 , Clone AB75, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 78
M7254	Mo a Hu	CD3 , Clone F7.2.38	78
A0452	Rb a Hu	CD3	78
GA503	Rb a Hu	CD3 , Ready-to-Use, FLEX, for Dako Omnis	27 78
IR503	Rb a Hu	CD3 , Ready-to-Use, FLEX, for Autostainer Link Instruments	42 78
IS503	Rb a Hu	CD3 , Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 78
IC002	a Hu	CD3 + CD20cy , Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	115
M7310	Mo a Hu	CD4 , Clone 4B12	78
IR649	Mo a Hu	CD4 , Clone 4B12, Ready-to-Use, FLEX, for Autostainer Link Instruments	42 78
IS649	Mo a Hu	CD4 , Clone 4B12, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 78
M3641	Mo a Hu	CD5 , Clone 4C7	78
IR082	Mo a Hu	CD5 , Clone 4C7, Ready-to-Use, FLEX, for Autostainer Link Instruments	42 78
IS082	Mo a Hu	CD5 , Clone 4C7, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 78
M7255	Mo a Hu	CD7 , Clone CBC.37	79
GA643	Mo a Hu	CD7 , Clone CBC.37, Ready-to-Use, FLEX, for Dako Omnis	27 79
IR643	Mo a Hu	CD7 , Clone CBC.37, Ready-to-Use, FLEX, for Autostainer Link Instruments	42 79
IS643	Mo a Hu	CD7 , Clone CBC.37, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 79
M7103	Mo a Hu	CD8 , Clone C8/144B	79
GA623	Mo a Hu	CD8 , Clone C8/144B, Ready-to-Use, FLEX, for Dako Omnis	27 79
IR623	Mo a Hu	CD8 , Clone C8/144B, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 79
IS623	Mo a Hu	CD8 , Clone C8/144B, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 79
M7308	Mo a Hu	CD10 , Clone 56C6	79
GA648	Mo a Hu	CD10 , Clone 56C6, Ready-to-Use, FLEX, for Dako Omnis	27 79
IR648	Mo a Hu	CD10 , Clone 56C6, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 79
IS648	Mo a Hu	CD10 , Clone 56C6, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 79
M0825	Mo a Hu	CD14 , Clone TÜK4	79
M3631	Mo a Hu	CD15 , Clone Carb-3	80
GA062	Mo a Hu	CD15 , Clone Carb-3, Ready-to-Use, FLEX, for Dako Omnis	27 80
IR062	Mo a Hu	CD15 , Clone Carb-3, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 80
IS062	Mo a Hu	CD15 , Clone Carb-3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 80
M7296	Mo a Hu	CD19 , Clone LE-CD19	80
IR656	Mo a Hu	CD19 , Clone LE-CD19, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 80
IS656	Mo a Hu	CD19 , Clone LE-CD19, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 80
M0755	Mo a Hu	CD20cy , Clone L26	80
GA604	Mo a Hu	CD20cy , Clone L26, Ready-to-Use, FLEX, for Dako Omnis	27 80
IR604	Mo a Hu	CD20cy , Clone L26, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 80
IS604	Mo a Hu	CD20cy , Clone L26, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 80
IC002	a Hu	CD20cy + CD3 , Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	115
M0784	Mo a Hu	CD21 , Clone 1F8	80
IR608	Mo a Hu	CD21 , Clone 1F8, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 80
IS608	Mo a Hu	CD21 , Clone 1F8, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 80
M7312	Mo a Hu	CD23 , Clone DAK-CD23	81
GA781	Mo a Hu	CD23 , Clone DAK-CD23, Ready-to-Use, FLEX, for Dako Omnis	27 81
IR781	Mo a Hu	CD23 , Clone DAK-CD23, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 81
IS781	Mo a Hu	CD23 , Clone DAK-CD23, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 81
M0751	Mo a Hu	CD30 , Clone Ber-H2	81
IR602	Mo a Hu	CD30 , Clone Ber-H2, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 81
IS602	Mo a Hu	CD30 , Clone Ber-H2, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 81
M0823	Mo a Hu	CD31, Endothelial Cell , Clone JC70A	81
GA610	Mo a Hu	CD31, Endothelial Cell , Clone JC70A, Ready-to-Use, FLEX, for Dako Omnis	27 81
IR610	Mo a Hu	CD31, Endothelial Cell , Clone JC70A, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 81
IS610	Mo a Hu	CD31, Endothelial Cell , Clone JC70A, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 81
M7165	Mo a Hu	CD34 Class II , Clone QBEnd 10	82

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GA632	Mo a Hu	CD34 Class II , Clone QBEnd 10, Ready-to-Use, FLEX, for Dako Omnis	27 82
IR632	Mo a Hu	CD34 Class II , Clone QBEnd 10, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 82
IS632	Mo a Hu	CD34 Class II , Clone QBEnd 10, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 82
M0846	Mo a Hu	CD35 , Clone Ber-MAC-DRC	82
M0786	Mo a Hu	CD43 , Clone DF-T1	82
GA636	Mo a Hu	CD43 , Clone DF-T1, Ready-to-Use, FLEX, for Dako Omnis	28 82
IR636	Mo a Hu	CD43 , Clone DF-T1, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 82
IS636	Mo a Hu	CD43 , Clone DF-T1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 82
M7082	Mo a Hu	CD44, Phagocytic Glycoprotein-1 , Clone DF1485	82
M0701	Mo a Hu	CD45, Leucocyte Common Antigen , Clones 2B11 + PD7/26	82
GA751	Mo a Hu	CD45, Leucocyte Common Antigen , Clones 2B11 + PD7/26, Ready-to-Use, FLEX, for Dako Omnis	28 82
IR751	Mo a Hu	CD45, Leucocyte Common Antigen , Clones 2B11 + PD7/26, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 82
IS751	Mo a Hu	CD45, Leucocyte Common Antigen , Clones 2B11 + PD7/26, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 82
M0742	Mo a Hu	CD45RO , Clone UCHL1	83
M0754	Mo a Hu	CD45RA , Clone 4KB5	83
M7304	Mo a Hu	CD56 , Clone 123C3	83
IR628	Mo a Hu	CD56 , Clone 123C3, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 83
IS628	Mo a Hu	CD56 , Clone 123C3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 83
M7271	Mo a Hu	CD57 , Clone TB01	83
IR647	Mo a Hu	CD57 , Clone TB01, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 83
IS647	Mo a Hu	CD57 , Clone TB01, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 83
M0753	Mo a Hu	CD61, Platelet Glycoprotein IIIa , Clone Y2/51	83
M0718	Mo a Hu	CD68 , Clone EBM11	84
M0814	Mo a Hu	CD68 , Clone KP1	84
GA609	Mo a Hu	CD68 , Clone KP1, Ready-to-Use, FLEX, for Dako Omnis	28 84
IR609	Mo a Hu	CD68 , Clone KP1, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 84
IS609	Mo a Hu	CD68 , Clone KP1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 84
M0876	Mo a Hu	CD68 , Clone PG-M1	84
GA613	Mo a Hu	CD68 , Clone PG-M1, Ready-to-Use, FLEX, for Dako Omnis	28 84
IR613	Mo a Hu	CD68 , Clone PG-M1, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 84
IS613	Mo a Hu	CD68 , Clone PG-M1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 84
M7050	Mo a Hu	CD79α , Clone JCB117	84
GA621	Mo a Hu	CD79α , Clone JCB117, Ready-to-Use, FLEX, for Dako Omnis	28 84
IR621	Mo a Hu	CD79α , Clone JCB117, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 84
IS621	Mo a Hu	CD79α , Clone JCB117, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 84
		CD87 , see: uPAR	
M3601	Mo a Hu	CD99, MIC2 Gene Products, Ewing's Sarcoma Marker , Clone 12E7	84
IR057	Mo a Hu	CD99, MIC2 Gene Products, Ewing's Sarcoma Marker , Clone 12E7, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 84
IS057	Mo a Hu	CD99, MIC2 Gene Products, Ewing's Sarcoma Marker , Clone 12E7, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 84
M3527	Mo a Hu	CD105, Endoglin , Clone SN6h	85
A4502	Rb a Hu	CD117, c-kit	85
		CD117 , see also: c-kit	
M7228	Mo a Hu	CD138 , Clone MI15	85
GA642	Mo a Hu	CD138 , Clone MI15, Ready-to-Use, FLEX, for Dako Omnis	28 85
IR642	Mo a Hu	CD138 , Clone MI15, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 85
IS642	Mo a Hu	CD138 , Clone MI15, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 85
M0819	Mo a Hu	CD235a, Glycophorin A , Clone JC159	85
		CD236R , see: Glycophorin C	
M7195	Mo a Hu	CD246, ALK Protein , Clone ALK1	86
GA641	Mo a Hu	CD246, ALK Protein , Clone ALK1, Ready-to-Use, FLEX, for Dako Omnis	28 86
IR641	Mo a Hu	CD246, ALK Protein , Clone ALK1, Ready-to-Use, FLEX, for Autostainer Link Instruments	44 86
IS641	Mo a Hu	CD246, ALK Protein , Clone ALK1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 86
M3636	Mo a Hu	CDX2 , Clone DAK-CDX2	86
GA080	Mo a Hu	CDX2 , Clone DAK-CDX2, Ready-to-Use, FLEX, for Dako Omnis	28 86
IR080	Mo a Hu	CDX2 , Clone DAK-CDX2, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 86
IS080	Mo a Hu	CDX2 , Clone DAK-CDX2, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 86
		CEA , see: Carcinoembryonic Antigen	
A0485	Rb a Hu	c-erbB-2 Oncoprotein	86
		c-erbB-2 Oncoprotein Kit , see: HerceptTest, <i>HER2</i> CISH pharmDx Kit and <i>HER2</i> IQFISH pharmDx	
		c-erbB-3 , see: HER3	
K0626		Chemiluminescent System for Nucleic Acid Blotting (20 Blots x 150 cm ²)	178
A0231	Rb a Hu	Chorionic Gonadotropin	86
GA508	Rb a Hu	Chorionic Gonadotropin , Ready-to-Use, FLEX, for Dako Omnis	28 86
IR508	Rb a Hu	Chorionic Gonadotropin , Ready-to-Use, FLEX, for Autostainer Link Instruments	45 86
IS508	Rb a Hu	Chorionic Gonadotropin , Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 86

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M0869	Mo a Hu	Chromogranin A , Clone DAK-A3	86
		CK , see: Cytokeratin	
K1906		c-Kit pharmDx (25 Tests)	143
K1907		c-Kit pharmDx for the Dako Autostainer	55 143
		c-kit , see also: CD117, c-kit	
S1967		Cleaning Agent, DAB-Away® , for the Dako Autostainer	54
SK301		Cleaning Kit, Instrument (Link)	36
SL002		Cleaning Reagent, Clear-It, for Special Stains , for use with the Dako Autostainer	54
GC207		Cleaning Solution , for ISH on Dako Omnis	24 179
GC810		Clarify™	23
AR309		Clearing Solution, Artisan	191
SL002		Clear-It Cleaning Reagent for Special Stains , for use with the Dako Autostainer	54
M0785	Mo a Hu	Collagen IV , Clone CIV 22	87
AR307		Colloidal Iron Stain Kit, Artisan (50 Tests)	192
F0254	Rb a Hu	Complement C1q/FITC	75
F0201	Rb a Hu	Complement C3c/FITC	75
F0169	Rb a Hu	Complement C4c/FITC	75
		Complement Receptor 1 , see: CD35	
AR161		Congo Red Stain Kit, Artisan (50 Tests/100 Tests)	195
		Control Reagents , see: Negative Controls	
CS701		Counterstain, Eosin, Dako , for Dako CoverStainer	185
S3302		Counterstain, Hematoxylin (500 mL)	134
S3309		Counterstain, Hematoxylin, Mayer's (500 mL)	134
CS700		Counterstain, Hematoxylin, Dako , for Dako CoverStainer	185
S1962		Counterstain, Methyl Green (500 mL)	134
CS704		Cover Glass, Dako, 24 x 50 mm	184
CR121		Cover Glass, 24 mm x 60 mm , for automated coverslippers	185
CR122		Cover Glass, 24 mm x 55 mm , for automated coverslippers	185
CR124		Cover Glass, 24 mm x 40 mm , for automated coverslippers	185
CR100		Coverslipper, Dako	184
CS100		CoverStainer, Dako	183
M3617	Mo a Hu	COX-2 , Clone CX-294	87
K1500		CSA (Catalyzed Signal Amplification) System (150 Tests)	132
K1497		CSA II (Catalyzed Signal Amplification) System, Biotin Free	132
K1501		CSA II Rabbit Link	132
M3642	Rb a Hu	Cyclin D1 , Clone EP12	87
GA083	Rb a Hu	Cyclin D1 , Clone EP12, Ready-to-Use, FLEX, for Dako Omnis	28 87
IR083	Rb a Hu	Cyclin D1 , Clone EP12, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 87
IS083	Rb a Hu	Cyclin D1 , Clone EP12, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 87
		Cyclooxygenase-2 , see: COX-2	
M3515	Mo a Hu	Cytokeratin , Clone AE1/AE3	87
GA053	Mo a Hu	Cytokeratin , Clone AE1/AE3, Ready-to-Use, FLEX, for Dako Omnis	29 87
IR053	Mo a Hu	Cytokeratin , Clone AE1/AE3, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 87
IS053	Mo a Hu	Cytokeratin , Clone AE1/AE3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 87
M0821	Mo a Hu	Cytokeratin , Clone MNF116	87
M7237	Mo a Hu	Cytokeratin 5/6 , Clone D5/16 B4	88
GA780	Mo a Hu	Cytokeratin 5/6 , Clone D5/16 B4, Ready-to-Use, FLEX, for Dako Omnis	29 88
IR780	Mo a Hu	Cytokeratin 5/6 , Clone D5/16 B4, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 88
IS780	Mo a Hu	Cytokeratin 5/6 , Clone D5/16 B4, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 88
IC004	a Hu	Cytokeratin 5/6 + AMACR + Cytokeratin HMW , Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	115
M7018	Mo a Hu	Cytokeratin 7 , Clone OV-TL 12/30	88
GA619	Mo a Hu	Cytokeratin 7 , Clone OV-TL 12/30, Ready-to-Use, FLEX, for Dako Omnis	29 88
IR619	Mo a Hu	Cytokeratin 7 , Clone OV-TL 12/30, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 88
IS619	Mo a Hu	Cytokeratin 7 , Clone OV-TL 12/30, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 88
M3652	Rb a Hu	Cytokeratin 8/18 , Clone EP17/EP30	88
IR094	Rb a Hu	Cytokeratin 8/18 , Clone EP17/EP30, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 88
M7002	Mo a Hu	Cytokeratin 10 , Clone DE-K10	88
M7003	Mo a Hu	Cytokeratin 10/13 , Clone DE-K13	88
M7046	Mo a	Cytokeratin 17 , Clone E3	89
IR620	Mo a	Cytokeratin 17 , Clone E3, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 89
IS620	Mo a Hu	Cytokeratin 17 , Clone E3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 89
M7010	Mo a Hu	Cytokeratin 18 , Clone DC 10	89
GA618	Mo a Hu	Cytokeratin 18 , Clone DC 10, Ready-to-Use, FLEX, for Dako Omnis	29 89
IR618	Mo a Hu	Cytokeratin 18 , Clone DC 10, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 89
IS618	Mo a Hu	Cytokeratin 18 , Clone DC 10, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 89

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M0888	Mo a Hu	Cytokeratin 19 , Clone RCK108	89
GA615	Mo a Hu	Cytokeratin 19 , Clone RCK108, Ready-to-Use, FLEX, for Dako Omnis	29 89
IR615	Mo a Hu	Cytokeratin 19 , Clone RCK108, Ready-to-Use, FLEX, for Autostainer Link Instruments	45 89
IS615	Mo a Hu	Cytokeratin 19 , Clone RCK108, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 89
M7019	Mo a Hu	Cytokeratin 20 , Clone K ₂₀ .8	89
GA777	Mo a Hu	Cytokeratin 20 , Clone K ₂₀ .8, Ready-to-Use, FLEX, for Dako Omnis	29 89
IR777	Mo a Hu	Cytokeratin 20 , Clone K ₂₀ .8, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 89
IS777	Mo a Hu	Cytokeratin 20 , Clone K ₂₀ .8, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 89
M0630	Mo a Hu	Cytokeratin, High Molecular Weight , Clone 34βE12	90
GA051	Mo a Hu	Cytokeratin, High Molecular Weight , Clone 34βE12, Ready-to-Use, FLEX, for Dako Omnis	29 90
IR051	Mo a Hu	Cytokeratin, High Molecular Weight , Clone 34βE12, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 90
IS051	Mo a Hu	Cytokeratin, High Molecular Weight , Clone 34βE12, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 90
IC004	a Hu	Cytokeratin HMW + AMACR + Cytokeratin 5/6 , Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	115
Z0622	Rb a	Cytokeratin, Wide Spectrum Screening	90
K5499		Cytology FISH Accessory Kit (20 Tests)	180
M0854	Mo a	Cytomegalovirus , Clones CCH2 + DDG9	90
		D	
		D2-40 , see: Podoplanin	
S1967		DAB-Away® , Cleaning Agent , for the Dako Autostainer	54
K3467		DAB+ (Diaminobenzidine), Liquid (150 Tests)	133
K3468		DAB+ (Diaminobenzidine), Liquid (1100 Tests)	54 133
S1961		DAB Enhancer	133
M0760	Mo a Hu	Desmin , Clone D33	90
IR606	Mo a Hu	Desmin , Clone D33, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 90
IS606	Mo a Hu	Desmin , Clone D33, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 90
		Diaminobenzidine (DAB) , see: DAB	
S0809		Diluent for Antibody	133
S3022		Diluent for Antibody , Background Reducing	133
K8006		Diluent for Antibody, EnVision FLEX	53 60 129
Y5417		DNA Probe/FITC and Texas Red, Fluorochrome-Conjugated, ALK	172
Y5407		DNA Probe/FITC and Texas Red, Fluorochrome-Conjugated, BCL2	172
Y5408		DNA Probe/FITC and Texas Red, Fluorochrome-Conjugated, BCL6	172
Y5414		DNA Probe/FITC and Texas Red, Fluorochrome-Conjugated, CCND1	173
Y5406		DNA Probe/FITC and Texas Red, Fluorochrome-Conjugated, IGH	173
Y5409		DNA Probe/FITC and Texas Red, Fluorochrome-Conjugated, MALT1	173
Y5410		DNA Probe/FITC and Texas Red, Fluorochrome-Conjugated, MYC	174
SK110		Doublestain System, EnVision DuoFLEX , for Autostainer Link Instruments	53 130
S2003		Dual Endogenous Enzyme Block	54 134
		DuoFLEX Cocktails	115-116
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		EBV , see: Epstein-Barr Virus	
M3612	Mo a Hu	E-Cadherin , Clone NCH-38	90
GA059	Mo a Hu	E-Cadherin , Clone NCH-38, Ready-to-Use, FLEX, for Dako Omnis	29 90
IR059	Mo a Hu	E-Cadherin , Clone NCH-38, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 90
IS059	Mo a Hu	E-Cadherin , Clone NCH-38, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 90
		EGFR , see: Epidermal Growth Factor Receptor	
K1492		EGFR pharmDx Kit , for Manual Use	144
K1494		EGFR pharmDx Kit for the Dako Autostainer	55 144
M7299	Mo a Hu	EGFR-pY1197, Phosphorylation Site Specific , Clone DAK-H1-1197	91
M7298	Mo a Hu	EGFR, Wild-Type , Clone DAK-H1-WT	91
M0752	Mo a Hu	Elastase, Neutrophil , Clone NP57	105
AR163		Elastic Stain Kit, Artisan (50 Tests/100 Tests)	195
		EMA , see: Epithelial Membrane Antigen	
		Endogenous Enzyme-Blocking Reagent , see: Dual Endogenous Enzyme Block	
M3527	Mo a Hu	Endoglin, CD105 , Clone SN6h	85
M0823	Mo a Hu	Endothelial Cell, CD31 , Clone JC70A	81
GA610	Mo a Hu	Endothelial Cell, CD31 , Clone JC70A, Ready-to-Use, FLEX, for Dako Omnis	27 81
IR610	Mo a Hu	Endothelial Cell, CD31 , Clone JC70A, Ready-to-Use, FLEX, for Autostainer Link Instruments	43 81
IS610	Mo a Hu	Endothelial Cell, CD31 , Clone JC70A, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 81
M7064	Mo a	Enterovirus , Clone 5-D8/1	91
K4065		EnVision Detection System, Peroxidase/DAB, Rabbit/Mouse (150 Tests)	61 131
SK110		EnVision DuoFLEX Doublestain System , for Autostainer Link Instruments (100-150 Tests)	53 130
K5361		EnVision G 2 Doublestain System, Rabbit/Mouse (DAB+ /Permanent Red) (150 Tests)	61 131

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K4063		EnVision+ /HRP, Dual Link Rabbit/Mouse (150 Tests)	131
K4061		EnVision+ /HRP, Dual Link Rabbit/Mouse (1100 Tests)	61 131
K4000		EnVision+ /HRP, Mouse (150 Tests)	131
K4001		EnVision+ /HRP, Mouse (1100 Tests)	131
K4002		EnVision+ /HRP, Rabbit (150 Tests)	131
K4003		EnVision+ /HRP, Rabbit (1100 Tests)	131
K4004		EnVision+ System/HRP, Mouse (AEC+) (150 Tests)	131
K4005		EnVision+ System/HRP, Mouse (AEC+) (1100 Tests)	61 131
K4006		EnVision+ System/HRP, Mouse (DAB)+ (150 Tests)	131
K4007		EnVision+ System/HRP, Mouse (DAB+) (1100 Tests)	61 131
K4008		EnVision+ System/HRP, Rabbit (AEC+) (150 Tests)	131
K4009		EnVision+ System/HRP, Rabbit (AEC+) (1100 Tests)	61 131
K4010		EnVision+ System/HRP, Rabbit (DAB)+ (150 Tests)	131
K4011		EnVision+ System/HRP, Rabbit (DAB+) (1100 Tests)	61 131
K8006		EnVision FLEX Antibody Diluent	53 60 129
GV825		EnVision FLEX DAB+ Substrate Chromogen System , for Dako Omnis	23 128
K8008		EnVision FLEX Hematoxylin , for Autostainer Link Instruments	53 129
K8018		EnVision FLEX Hematoxylin , for Dako Autostainer Instruments	60 129
K8000		EnVision FLEX, High pH , for Autostainer Link Instruments	52 127
K8010		EnVision FLEX, High pH , for Dako Autostainer Instruments	59 127
GV800		EnVision FLEX, High pH , for Dako Omnis	33 127
K8023		EnVision FLEX Mini Kit, High pH , for Autostainer Link Instruments	52 127
K8024		EnVision FLEX Mini Kit, High pH , for Dako Autostainer Instruments	59 127
GV823		EnVision FLEX Mini Kit, High pH , for Dako Omnis	33 127
K8004		EnVision FLEX Target Retrieval Solution, High pH (50x)	53 60 129
GV804		EnVision FLEX Target Retrieval Solution, High pH (50x), for Dako Omnis	33
K8005		EnVision FLEX Target Retrieval Solution, Low pH (50x)	53 60 129
GV805		EnVision FLEX Target Retrieval Solution, Low pH (50x), for Dako Omnis	33 128
K8007		EnVision FLEX Wash Buffer (20x)	53 60 129
K8002		EnVision FLEX+, High pH , for Autostainer Link Instruments	52 127
K8012		EnVision FLEX+, High pH , for Dako Autostainer Instruments	59 127
K8021		EnVision FLEX+ Mouse (LINKER) , for Autostainer Link Instruments	53 129
K8022		EnVision FLEX+ Mouse (LINKER) , for Dako Autostainer Instruments	60 129
GV821		EnVision FLEX+ Mouse LINKER , for Dako Omnis	33 128
K8009		EnVision FLEX+ Rabbit (LINKER) , for Autostainer Link Instruments	53 129
K8019		EnVision FLEX+ Rabbit (LINKER) , for Dako Autostainer Instruments	60 129
GV809		EnVision FLEX+ Rabbit LINKER , for Dako Omnis	33 128
CS701		Eosin, Dako , for Dako CoverStainer	185
M3563	Mo a Hu	Epidermal Growth Factor Receptor , Clone H11	91
		Epidermal Growth Factor Receptor , see also: EGFR	
M0804	Mo a Hu	Epithelial Antigen , Clone Ber-EP4	91
GA637	Mo a Hu	Epithelial Antigen , Clone Ber-EP4, Ready-to-Use, FLEX, for Dako Omnis	29 91
IR637	Mo a Hu	Epithelial Antigen , Clone Ber-EP4, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 91
IS637	Mo a Hu	Epithelial Antigen , Clone Ber-EP4, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 91
M0613	Mo a Hu	Epithelial Membrane Antigen , Clone E29	92
IR629	Mo a Hu	Epithelial Membrane Antigen , Clone E29, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 92
IS629	Mo a Hu	Epithelial Membrane Antigen , Clone E29, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 92
M3525	Mo a Hu	Epithelial-Related Antigen , Clone MOC-31	92
		Epitope Retrieval , see: Target Retrieval	
Y5200		Epstein-Barr Virus (EBER) PNA Probe/Fluorescein	177
M0897	Mo a	Epstein-Barr Virus, LMP , Clones CS.1-4	92
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		erbB-3 , see: HER3	
		ERBB2 Oncoprotein , see: c-erbB-2 Oncoprotein, HercepTest and HER2 IQFISH pharmDx Kit	
M3648	Mo a Hu	ERCC1 , Clone 4F9,	92
IR091	Mo a Hu	ERCC1 , Clone 4F9, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 92
M7314	Rb a Hu	ERG , Clone EP111	92
GA659	Rb a Hu	ERG , Clone EP111, Ready-to-Use, FLEX, for Dako Omnis	29 92
IR659	Rb a Hu	ERG , Clone EP111, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 92
K4071		ER/PR pharmDx Kit for the Dako Autostainer	55 146
SK310		ER/PR pharmDx Kit (Link) (50 Tests)	38 146
B0357	Rb a	Escherichia Coli	117
IR084	Rb a Hu	Estrogen Receptor α , Clone EP1, Ready-to-Use, FLEX, for Autostainer Link Instruments	46 93
		Estrogen Receptor α , see also: ER/PR pharmDx Kits	

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GM300		Ethanol Solution, 96% , for In Situ Hybridization on Dako Omnis	24 179
		Ets-Related Gene , see: ERG	
		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	135
M3567	Mo a Hu	Fascin , Clone 55K-2	93
F0111	Rb a Hu	Fibrinogen/FITC	93 117
K5499		FISH Accessory Kit, Cytology (20 Tests)	180
K5799		FISH Accessory Kit, Histology (20 Tests)	180
K5326		FISH PNA Kit/Cy3, Telomere (20 Tests)	171
K5325		FISH PNA Kit/FITC, Telomere (20 Tests)	171
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		FLEX, EnVision Reagents	128-129
		FLEX, EnVision Systems	126-127
P5100	Rb a	Fluorescein Isothiocyanate (FITC)/HRP , Rabbit F(Ab')	171
S3023		Fluorescence Mounting Medium	135
GM304		Fluorescence Mounting Medium (Dako Omnis)	24 179
M3504	Mo a Hu	Follicle-Stimulating Hormone (FSH) , Clone C10	93
M7157	Mo a Hu	Follicular Dendritic Cell , Clone CNA.42	94
Y1442		Fragile X Probe/Fluorescein	178
K0625		Fuchsin+ Substrate-Chromogen (300 Tests/1100 Tests)	133
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A0568	Rb a Hu	Gastrin	94
GA519	Rb a Hu	Gastrin , Ready-to-Use, FLEX, for Dako Omnis	30 94
IR519	Rb a Hu	Gastrin , Ready-to-Use, FLEX, for Autostainer Link Instruments	46 94
IS519	Rb a Hu	Gastrin , Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 94
		GCDPF-15 , see: Gross Cystic Disease Fluid Protein-15	
K0620		GenPoint, Catalyzed Signal Amplification System, for In Situ Hybridization (65 Tests)	176
AR164		Giemsa Stain Kit, Artisan (50 Tests)	195
AR308		Giemsa Stain Kit (Jenner-Wright), Artisan (50 Tests)	192
M0761	Mo a Hu	Glial Fibrillary Acidic Protein (GFAP) , Clone 6F2	94
Z0334	Rb a	Glial Fibrillary Acidic Protein (GFAP)	94 117
GA524	Rb a	Glial Fibrillary Acidic Protein (GFAP) , Ready-to-Use, FLEX, for Dako Omnis	30 94
IR524	Rb a	Glial Fibrillary Acidic Protein (GFAP) , Ready-to-Use, FLEX, for Autostainer Link Instruments	47 94
IS524	Rb a	Glial Fibrillary Acidic Protein (GFAP) , Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 94
C0563		Glycergel[®] , Aqueous Mounting Medium	135
		Glycophorin A , see: CD235a, Glycophorin A	
M0820	Mo a Hu	Glycophorin C , Clone Ret40f	94
		Glycoprotein IIIa , see: CD61, Platelet Glycoprotein IIIa	
AR376		GMS (Grocott's Methenamine Silver) Eosin Stain Kit, Artisan (50 Tests)	193
AR176		GMS (Grocott's Methenamine Silver) Stain Kit, Artisan (50 Tests/100 Tests)	196
E0466	Rb a	Goat Immunoglobulins/Biotinylated	119
F0250	Rb a	Goat Immunoglobulins/FITC	119
P0160	Rb a	Goat Immunoglobulins/HRP	119
P0449	Rb a	Goat Immunoglobulins/HRP	119
X0907		Goat Serum (Normal)	121
AR166		Gomori's Green Trichrome Stain Kit, Artisan (50 Tests)	195
AR167		Gomori's Trichrome Stain Kit, Artisan (50 Tests)	195
AR175		Gram Stain Kit, Artisan (50 Tests)	196
AR306		Gram Yellow Stain Kit, Artisan (50 Tests)	192
M7235	Mo a Hu	Granzyme B , Clone GrB-7	94
AR376		Grocott's Methenamine Silver (GMS) Eosin Stain Kit, Artisan (50 Tests)	193
AR176		Grocott's Methenamine Silver (GMS) Stain Kit, Artisan (50 Tests/100 Tests)	196
M3638	Mo a Hu	Gross Cystic Disease Fluid Protein-15 , Clone 23A3	95
GA077	Mo a Hu	Gross Cystic Disease Fluid Protein-15 , Clone 23A3, Ready-to-Use, FLEX, for Dako Omnis	30 95
IR077	Mo a Hu	Gross Cystic Disease Fluid Protein-15 , Clone 23A3, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 95
IS077	Mo a Hu	Gross Cystic Disease Fluid Protein-15 , Clone 23A3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 95
A0570	Rb a Hu	Growth Hormone	95
P0141	Rb a	Guinea Pig Immunoglobulins/HRP	119

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		hCG , see: Chorionic Gonadotropin	
B0471	Rb a	Helicobacter Pylori	95
S3302		Hematoxylin (500 mL)	134
SK308		Hematoxylin , for Autostainer Link Instruments	36 147 149
GC808		Hematoxylin , for Dako Omnis	23 128
S3301		Hematoxylin , for Dako Autostainer	54 145 147 149
K8008		Hematoxylin, EnVision FLEX , for Autostainer Link Instruments	53 129
K8018		Hematoxylin, EnVision FLEX , for Dako Autostainer Instruments	60 129
S3309		Hematoxylin, Mayer's (500 mL)	134
CS700		Hematoxylin , for Dako CoverStainer	185
B0586	Rb a	Hepatitis B Virus Core Antigen (HBcAg)	95
M7158	Mo a Hu	Hepatocyte , Clone OCH1E5	95
GA624	Mo a Hu	Hepatocyte , Clone OCH1E5, Ready-to-Use, FLEX, for Dako Omnis	30 95
IR624	Mo a Hu	Hepatocyte , Clone OCH1E5, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 95
IS624	Mo a Hu	Hepatocyte , Clone OCH1E5, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 95
		HER1 Protein , see: EGFR pharmDx Kit	
SK109		HER2 CISH pharmDx Kit (20 Tests)	154 170
K5731		HER2 IQFISH pharmDx (20 Tests)	153 169
		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	95
K5204		HercepTest (35 Tests)	148
SK001		HercepTest for Automated Link Platforms (50 Tests)	38 148
K5207		HercepTest for the Dako Autostainer	55 148
B0114	Rb a	Herpes Simplex Virus Type 1	95
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		hGH , see: Growth Hormone	
K5799		Histology FISH Accessory Kit (20 Tests)	180
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M0736	Mo a Hu	HLA-ABC Antigen , Clone W6/32	95
M0775	Mo a Hu	HLA-DP, DQ, DR Antigen , Clone CR3/43	96
M0746	Mo a Hu	HLA-DR Antigen, Alpha-Chain , Clone TAL.1B5	96
		HPV , see: Papillomavirus (Human)	
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M0857	Mo a	Human Immunodeficiency Virus (HIV), p24 , Clone Kal-1	96
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S1801		Hybridization Solution, Nucleic Acid Blotting	178
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A0262	Rb a Hu	IgA	96 117
F0204	Rb a Hu	IgA/FITC	96 117
F0316	Rb a Hu	IgA/FITC , Rabbit F(ab') ₂	96
GA510	Rb a Hu	IgA , Ready-to-Use, FLEX, for Dako Omnis	30 96
IR510	Rb a Hu	IgA , Ready-to-Use, FLEX, for Autostainer Link Instruments	47 96
IS510	Rb a Hu	IgA , Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 96
F0200	Rb a Hu	IgA, IgG, IgM, Kappa, Lambda/FITC	96 117
P0212	Rb a Hu	IgA, IgG, IgM, Kappa, Lambda/HRP	96 117
IR517	Rb a Hu	IgD , Ready-to-Use, FLEX, for Autostainer Link Instruments	47 96
IS517	Rb a Hu	IgD , Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 96
A0423	Rb a Hu	IgG	96 117
D0336	Rb a Hu	IgG/AP	96 117
F0315	Rb a Hu	IgG/FITC, Rabbit F(ab')₂	96 117
F0202	Rb a Hu	IgG/FITC	96 117
P0214	Rb a Hu	IgG/HRP	96 117
IR512	Rb a Hu	IgG , Ready-to-Use, FLEX, for Autostainer Link Instruments	47 96
IS512	Rb a Hu	IgG , Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 96
Y5406		IGH DNA Probe, Fluorochrome-Conjugated	173
A0425	Rb a Hu	IgM	97 117

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P0215	Rb a Hu	IgM/HRP	97 117
IR513	Rb a Hu	IgM , Ready-to-Use, FLEX, for Autostainer Link Instruments	47 97
IS513	Rb a Hu	IgM , Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 97
K8020		IHC Microscope Slides , FLEX	23 36 54 129 135
M3626	Mo a Hu	IMP3 , Clone 69.1	97
M3609	Mo a Hu	Inhibin α , Clone R1	97
IR058	Mo a Hu	Inhibin α , Clone R1, Ready-to-Use, FLEX, for Autostainer Link Instruments	47 97
IS058	Mo a Hu	Inhibin α , Clone R1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	57 97
K0601		In Situ Hybridization Detection Kit (AP), for Biotinylated Nucleic Acid Probes (50 Tests)	177
K5201		In Situ Hybridization Detection Kit (AP), for Fluorescein-Labelled PNA Probes (40 Tests)	177
SK301		Instrument Cleaning Kit (Link)	36
A0564	Gp a	Insulin	97
IR002	Gp a	Insulin , Ready-to-Use, FLEX, for Autostainer Link Instruments	47 97
IS002	Gp a	Insulin , Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 97
G9415A		IQFISH Fast Hybridization Buffer 200	180
G9416A		IQFISH Fast Hybridization Buffer 200 x 6	180
G9414A		IQFISH Fast Hybridization Buffer 900	180
K5731		IQFISH pharmDx, HER2 (20 Tests)	153 169
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AR158		Iron Stain Kit, Artisan (50 Tests/100 Tests)	196
GC207		ISH Cleaning Solution (Dako Omnis)	24 179
GM300		ISH Ethanol Solution, 96% (Dako Omnis)	24 179
GC102		ISH Lid , for Dako Omnis	24 179
GM302		ISH Pepsin (Dako Omnis)	24 179
GM301		ISH Pre-Treatment Solution (20x) (Dako Omnis)	24 179
GM303		ISH Stringent Wash Buffer (20x) (Dako Omnis)	24 179
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AR308		Jenner-Wright Giemsa Stain Kit, Artisan (50 Tests/100 Tests)	192
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A0191	Rb a Hu	Kappa Light Chains	98 117
F0198	Rb a Hu	Kappa Light Chains/FITC	98 117
GA506	Rb a Hu	Kappa Light Chains , Ready-to-Use, FLEX, for Dako Omnis	30 98
IR506	Rb a Hu	Kappa Light Chains , Ready-to-Use, FLEX, for Autostainer Link Instruments	47 98
IS506	Rb a Hu	Kappa Light Chains , Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 98
		Keratin , see: Cytokeratin	
		Ki-1 Antigen , see: CD30	
M7240	Mo a Hu	Ki-67 Antigen , Clone MIB-1	98
GA626	Mo a Hu	Ki-67 Antigen , Clone MIB-1, Ready-to-Use, FLEX, for Dako Omnis	30 98
IR626	Mo a Hu	Ki-67 Antigen , Clone MIB-1, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 98
IS626	Mo a Hu	Ki-67 Antigen , Clone MIB-1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 98
M7248	Mo a Rt	Ki-67 Antigen , Clone MIB-5	98
M7203	Mo a Hu	Kip1 , Clone SX53G8	106
		KIT , see: CD117, c-kit and c-Kit pharmDx	
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		L1-Antigen , see: Myeloid/Histiocyte Antigen	
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A0193	Rb a Hu	Lambda Light Chains	98 118
F0199	Rb a Hu	Lambda Light Chains/FITC	98 118
GA507	Rb a Hu	Lambda Light Chains , Ready-to-Use, FLEX, for Dako Omnis	30 98
IR507	Rb a Hu	Lambda Light Chains , Ready-to-Use, FLEX, for Autostainer Link Instruments	48 98
IS507	Rb a Hu	Lambda Light Chains , Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 98
M0638	Mo a Hu	Laminin , Clone 4C7	99
Z0097	Rb a	Laminin	99
M7262	Mo a Hu	Laminin-5, Gamma-2 Chain , Clone 4G1	99

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GC202		Large Vial, 30 mL , for Dako Omnis	23
M7279	Mo a Hu	LAT Protein , Clone LAT-1	99
		Leucocyte Common Antigen , see: CD45, Leucocyte Common Antigen	
M0880	Mo a Hu	Leukaemia, Hairy Cell , Clone DBA.44	99
		Leukosialin , see: CD43	
X3021		Levamisole Solution	134
		Lewis X Antigen , see: CD15	
K0640		Liquid Permanent Red Chromogen	133
K0675		LSAB2 Kit/HRP, Rabbit/Mouse (1100 Tests)	61 132
K0609		LSAB2 Kit/HRP, Rabbit/Mouse, for Rat Tissue (150 Tests)	132
M3502	Mo a Hu	Luteinizing Hormone (LH) , Clone C93	99
		Lymphatic Endothelium Marker , see: Podoplanin	
A0099	Rb a Hu	Lysozyme EC 3.2.1.17	99 118
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M0633	Mo a Rb	Macrophage , Clone RAM11	100
AR314		Maintenance Kit, Artisan	191
Y5409		MALT1 DNA Probe, Fluorochrome-Conjugated	173
M3625	Mo a Hu	Mammaglobin , Clone 304-1A5	100
GA074	Mo a Hu	Mammaglobin , Clone 304-1A5, Ready-to-Use, FLEX, for Dako Omnis	30 100
IR074	Mo a Hu	Mammaglobin , Clone 304-1A5, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 100
IS074	Mo a Hu	Mammaglobin , Clone 304-1A5, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 100
AR173		Masson's Trichrome Stain Kit, Artisan (50 Tests/100 Tests)	196
M7052	Mo a Hu	Mast Cell Tryptase , Clone AA1	100
IR640	Mo a Hu	Mast Cell Tryptase , Clone AA1, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 100
IS640	Mo a Hu	Mast Cell Tryptase , Clone AA1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 100
M7263	Mo a Hu	MCM3 Protein , Clone 101	100
M7196	Mo a Hu	Melan-A , Clone A103	100
IR633	Mo a Hu	Melan-A , Clone A103, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 100
IS633	Mo a Hu	Melan-A , Clone A103, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 100
IC001	a Hu	Melan-A + S100 + Tyrosinase , Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	116
M0634	Mo a Hu	Melanosome , Clone HMB-45	101
GA052	Mo a Hu	Melanosome , Clone HMB-45, Ready-to-Use, FLEX, for Dako Omnis	31 101
IR052	Mo a Hu	Melanosome , Clone HMB-45, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 101
IS052	Mo a Hu	Melanosome , Clone HMB-45, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 101
M3505	Mo a Hu	Mesothelial Cell , Clone HBME-1	101
M0639	Mo a	Metallothionein , Clone E9	101
S1962		Methyl Green (500 mL)	134
		MHC-I , see: HLA-ABC Antigen	
		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 36 54 129 135
M3621	Mo a Hu	MITF , Clone D5	101
GC116		Mixing Device , for Dako Omnis	24 179
GC107		Mixing Strip , for Dako Omnis	23
		MLH1 , see: MutL Protein Homolog 1	
		MMAC , see: PTEN	
S3025		Mounting Medium, Aqueous, Faramount	135
C0563		Mounting Medium, Aqueous, Glycergel	135
S1964		Mounting Medium, Aqueous, Permanent, Ultramount	135
CS703		Mounting Medium, Dako , for Dako CoverStainer	185
S3023		Mounting Medium, Fluorescence	135
CS705		Mounting Medium, Toluene-Free, Dako , for Dako CoverStainer	185
GM304		Mounting Medium for FISH (Dako Omnis)	24 179
X0931		Mouse IgG1 , Control Reagent	121
X0943		Mouse IgG2a , Control Reagent	121
X0944		Mouse IgG2b , Control Reagent	121
X0942		Mouse IgM , Control Reagent	121
Z0420	Gt a	Mouse Immunoglobulins	119
D0486	Gt a	Mouse Immunoglobulins/AP	119
E0433	Gt a	Mouse Immunoglobulins/Biotinylated	119
P0447	Gt a	Mouse Immunoglobulins/HRP	119

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Z0259	Rb a	Mouse Immunoglobulins	119
D0314	Rb a	Mouse Immunoglobulins/AP	119
E0354	Rb a	Mouse Immunoglobulins/Biotinylated	119
E0413	Rb a	Mouse Immunoglobulins/Biotinylated , Rabbit F(ab) ₂	119
F0232	Rb a	Mouse Immunoglobulins/FITC	119
F0261	Rb a	Mouse Immunoglobulins/FITC	119
P0161	Rb a	Mouse Immunoglobulins/HRP	119
P0260	Rb a	Mouse Immunoglobulins/HRP	119
K8021		Mouse (LINKER), EnVision FLEX+ , for Autostainer Link Instruments	53 129
K8022		Mouse (LINKER), EnVision FLEX+ , for Dako Autostainer Instruments	60 129
		MSH2 , see: MutS Protein Homolog 2	
		MSH6 , see: MutS Protein Homolog 6	
		MUC1 , see: Epithelial Membrane Antigen	
M7313	Mo a Hu	MUC2 , Clone CCP58	101
IR658	Mo a Hu	MUC2 , Clone CCP58, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 101
M7316	Mo a Hu	MUC5AC , Clone CLH2	102
IR661	Mo a Hu	MUC5AC , Clone CLH2, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 102
AR168		Mucicarmine Stain Kit, Artisan (50 Tests/100 Tests)	196
M7259	Mo a Hu	MUM1 Protein , Clone MUM1p	102
GA644	Mo a Hu	MUM1 Protein , Clone MUM1p, Ready-to-Use, FLEX, for Dako Omnis	31 102
IR644	Mo a Hu	MUM1 Protein , Clone MUM1p, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 102
IS644	Mo a Hu	MUM1 Protein , Clone MUM1p, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 102
		Muramidase , see: Lysozyme EC 3.2.1.17	
M0635	Mo a Hu	Muscle Actin , Clone HHF35	73
IR700	Mo a Hu	Muscle Actin , Clone HHF35, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 73
IS700	Mo a Hu	Muscle Actin , Clone HHF35, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 73
M3640	Mo a Hu	MutL Protein Homolog 1 , Clone ES05	102
IR079	Mo a Hu	MutL Protein Homolog 1 , Clone ES05, Ready-to-Use, FLEX, for Autostainer Link Instruments	48 102
IS079	Mo a Hu	MutL Protein Homolog 1 , Clone ES05, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 102
M3639	Mo a Hu	MutS Protein Homolog 2 , Clone E11	102
IR085	Mo a Hu	MutS Protein Homolog 2 , Clone E11, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 102
M3646	Rb a Hu	MutS Protein Homolog 6 , Clone EP49	103
IR086	Rb a Hu	MutS Protein Homolog 6 , Clone EP49, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 103
Y5410		MYC DNA Probe, Fluorochrome-Conjugated	174
A0623	Rb a Hu	Myelin Basic Protein	103
M0747	Mo a Hu	Myeloid/Histiocyte Antigen , Clone MAC 387	103
A0398	Rb a Hu	Myeloperoxidase	103
GA511	Rb a Hu	Myeloperoxidase , Ready-to-Use, FLEX, for Dako Omnis	31 103
IR511	Rb a Hu	Myeloperoxidase , Ready-to-Use, FLEX, for Autostainer Link Instruments	49 103
IS511	Rb a Hu	Myeloperoxidase , Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 103
M3512	Mo a	MyoD1 , Clone 5.8A	103
M3559	Mo a	Myogenin , Clone F5D	104
IR067	Mo a	Myogenin , Clone F5D, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 104
IS067	Mo a	Myogenin , Clone F5D, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 104
M3558	Mo a Hu	Myosin Heavy Chain, Smooth Muscle , Clone SMMS-1	104
IR066	Mo a Hu	Myosin Heavy Chain, Smooth Muscle , Clone SMMS-1, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 104
IS066	Mo a Hu	Myosin Heavy Chain, Smooth Muscle , Clone SMMS-1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 104
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M3613	Mo a Hu	N-Cadherin , Clone 6G11	104
X0931		Negative Control, Mouse IgG1	121
X0943		Negative Control, Mouse IgG2a	121
X0944		Negative Control, Mouse IgG2b	121
X0942		Negative Control, Mouse IgM	121
X0903		Negative Control, Rabbit Immunoglobulin Fraction (Normal)	121
X0936		Negative Control, Rabbit Immunoglobulin Fraction (Solid-Phase Absorbed)	121
GA750		Negative Control, Universal, Ready-to-Use, for FLEX Ready-to-Use Mouse Primary Antibodies , for Dako Omnis	32 121
IR750		Negative Control, Universal, Ready-to-Use, for FLEX Ready-to-Use Mouse Primary Antibodies , for Autostainer Link Instruments	52 121
IS750		Negative Control, Universal, Ready-to-Use, for FLEX Ready-to-Use Mouse Primary Antibodies , for Dako Autostainer Instruments	59 121
GA600		Negative Control, Universal, Ready-to-Use, for FLEX Ready-to-Use Rabbit Primary Antibodies , for Dako Omnis	32 121
IR600		Negative Control, Universal, Ready-to-Use, for FLEX Ready-to-Use Rabbit Primary Antibodies , for Autostainer Link Instruments	52 121
IS600		Negative Control, Universal, Ready-to-Use, for FLEX Ready-to-Use Rabbit Primary Antibodies , for Dako Autostainer/Autostainer Plus	59 121
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		Neural-Type Cadherin (NCAD) , see: N-Cadherin	

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GA607	Mo a Hu	Neurofilament Protein , Clone 2F11, Ready-to-Use, FLEX, for Dako Omnis	31 104
IR607	Mo a Hu	Neurofilament Protein , Clone 2F11, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 104
IS607	Mo a Hu	Neurofilament Protein , Clone 2F11, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 104
M0873	Mo a Hu	Neuron-Specific Enolase (NSE) , Clone BBS/NC/VI-H14	104
IR612	Mo a Hu	Neuron-Specific Enolase (NSE) , Clone BBS/NC/VI-H14, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 104
IS612	Mo a Hu	Neuron-Specific Enolase (NSE) , Clone BBS/NC/VI-H14, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 104
		Neutral Endopeptidase 24.11 , see: CD10	
M0752	Mo a Hu	Neutrophil Elastase , Clone NP57	105
K0698		New Fuchsin Substrate System (1750 Tests)	133
		NPM , see: Nucleophosmin	
		NSE , see: Neuron-Specific Enolase (NSE)	
M7305	Mo a Hu	Nucleophosmin , Clone 376	105
GA652	Mo a Hu	Nucleophosmin , Clone 376, Ready-to-Use, FLEX, for Dako Omnis	31 105
IR652	Mo a Hu	Nucleophosmin , Clone 376, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 105
		O	
		OCT3/4 , see: Octamer-Binding Transcription Factor 3/4	
M3649	Mo a Hu	Octamer-Binding Transcription Factor 3/4 , Clone N1NK	105
IR092	Mo a Hu	Octamer-Binding Transcription Factor 3/4 , Clone N1NK, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 105
GI100		Omnis, Dako	21
		Oncoprotein, BCL2 , see: BCL2 Oncoprotein	
AR313		Orcein Stain Kit, Artisan (50 Tests)	193
		P	
M7202	Mo a Hu	p21^{WAF1/Cip1} , Clone SX118	106
M7203	Mo a Hu	p27^{Kip1} , Clone SX53G8	106
M7001	Mo a Hu	p53 Protein , Clone DO-7	106
GA616	Mo a Hu	p53 Protein , Clone DO-7, Ready-to-Use, FLEX, for Dako Omnis	31 106
IR616	Mo a Hu	p53 Protein , Clone DO-7, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 106
IS616	Mo a Hu	p53 Protein , Clone DO-7, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 106
M3629	Rb a Hu	p53 Protein , Clone 318-6-11	106
		P501S , see: Prostein	
		P504S , see: AMACR	
M3528	Mo a Hu	Papillomavirus (Human) (HPV) , Clone K1H8	106
AR165		PAS (Periodic Acid-Schiff) Stain Kit, Artisan (50 Tests/100 Tests)	197
AR169		PAS (Periodic Acid-Schiff)/Alcian Blue Stain Kit, Artisan (50 Tests/100 Tests)	194
AR172		PAS (Periodic Acid-Schiff)/Green Stain Kit, Artisan (50 Tests/100 Tests)	197
S2801		Pascal Quality Strips (100 Strips)	135
AR180		PAS-M (Periodic Acid-Schiff)/Jones' Basement Membrane Stain Kit, Artisan (100 Tests)	196
AR480		PAS-M (Periodic Acid-Schiff)/Jones' Basement Membrane H&E Stain Kit, Artisan (100 Tests)	193
AR380		PAS-M (Periodic Acid-Schiff)/Jones' Basement Membrane Light Green Stain Kit, Artisan (50 Tests)	193
		Pax-5 , see: B-Cell-Specific Activator Protein	
S3024		PBS (Phosphate-Buffered Saline) pH 7.0 (6 x 1 L)	134
		PCNA , see: Proliferating Cell Nuclear Antigen	
SK006		PD-L1 IHC 22C3 pharmDx	39 155
SK005		PD-L1 IHC 28-8 pharmDx	39 158
		PECAM-1 , see: CD31, Endothelial Cell	
S2002		Pen , for Immunohistochemistry	135
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AR165		Periodic Acid-Schiff (PAS) Stain Kit, Artisan (50 Tests/100 Tests)	197
AR169		Periodic Acid-Schiff (PAS)/Alcian Blue Stain Kit, Artisan (50 Tests/100 Tests)	194
AR172		Periodic Acid-Schiff (PAS)/Green Stain Kit, Artisan (50 Tests/100 Tests)	197
AR180		Periodic Acid-Schiff (PAS-M)/Jones' Basement Membrane Stain Kit, Artisan (100 Tests)	196
AR480		Periodic Acid-Schiff (PAS-M)/Jones' Basement Membrane H&E Stain Kit, Artisan (100 Tests)	193
AR380		Periodic Acid-Schiff (PAS-M)/Jones' Basement Membrane Light Green Stain Kit, Artisan (50 Tests)	193
CS703		Permanent Mounting Medium, Dako , for Dako CoverStainer	185
CS705		Permanent Mounting Medium, Toluene-Free, Dako , for Dako CoverStainer	185
K0640		Permanent Red, Liquid Chromogen	133
K0695		Permanent Red Substrate System	133
		Peroxidase and Alkaline Phosphatase-Blocking Reagent , see: Dual Endogenous Enzyme Block	
Z5116	Rb a	PGP 9.5	107
M7082	Mo a Hu	Phagocytic Glycoprotein-1, CD44 , Clone DF1485	82
S3024		Phosphate-Buffered Saline (PBS), pH 7.0 (6 x 1 L)	134

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M7191	Mo a Hu	Placental Alkaline Phosphatase , Clone 8A9	107
IR779	Mo a Hu	Placental Alkaline Phosphatase , Clone 8A9, Ready-to-Use, FLEX, for Autostainer Link Instruments	49 107
IS779	Mo a Hu	Placental Alkaline Phosphatase , Clone 8A9, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 107
M7077	Mo a Hu	Plasma Cell , Clone VS38c	107
		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	
		PMS2 , see: Postmeiotic Segregation Increased 2	
K5326		PNA FISH Kit/Cy3, Telomere (20 Tests)	171
K5325		PNA FISH Kit/FITC, Telomere (20 Tests)	171
K5201		PNA In Situ Hybridization Detection Kit (40 Tests)	177
Y5200		PNA Probe/Fluorescein, Epstein-Barr Virus (EBER)	177
M3619	Mo a Hu	Podoplanin , Clone D2-40	107
IR072	Mo a Hu	Podoplanin , Clone D2-40, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 107
IS072	Mo a Hu	Podoplanin , Clone D20, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 107
M3647	Rb a Hu	Postmeiotic Segregation Increased 2 , Clone EP51	107
IR087	Rb a Hu	Postmeiotic Segregation Increased 2 , Clone EP51, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 107
		PR , see: Progesterone Receptor	
GM301		Pre-Treatment Solution (20x) , for In Situ Hybridization on Dako Omnis	24 179
M3569	Mo a Hu	Progesterone Receptor , Clone PgR 636	108
IR068	Mo a Hu	Progesterone Receptor , Clone PgR 636, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 108
M3568	Mo a Hu	Progesterone Receptor , Clone PgR 1294	108
		Progesterone Receptor , see also: ER/PR pharmDx Kits	
A0569	Rb a Hu	Prolactin	108
M0879	Mo a	Proliferating Cell Nuclear Antigen , Clone PC10	108
M0750	Mo a Hu	Prostate-Specific Antigen (PSA) , Clone ER-PR8	108
A0562	Rb a Hu	Prostate-Specific Antigen (PSA)	108
GA514	Rb a Hu	Prostate-Specific Antigen (PSA) , Ready-to-Use, FLEX, for Dako Omnis	31 108
IR514	Rb a Hu	Prostate-Specific Antigen (PSA) , Ready-to-Use, FLEX, for Autostainer Link Instruments	50 108
IS514	Rb a Hu	Prostate-Specific Antigen (PSA) , Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 108
M3620	Mo a Hu	Prostate-Specific Membrane Antigen (PSMA) , Clone 3E6	109
IR089	Mo a Hu	Prostate-Specific Membrane Antigen (PSMA) , Clone 3E6, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 109
M0792	Mo a Hu	Prostatic Acid Phosphatase , Clone PASE/4LJ	109
M3615	Mo a Hu	Prostein , Clone 10E3	109
IR088	Mo a Hu	Prostein , Clone 10E3, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 109
X0909		Protein Block, Serum Free	134
Z5116	Rb a	Protein Gene Product 9.5	107
		Protein Kinase B (PKB) , see: Akt-pS473, Phosphorylation Site Specific	
S3004		Proteinase K	135
S3020		Proteinase K, Ready-to-Use	54 135
S3007		Proteolytic Enzyme , Ready-to-Use	54 135
		PSA , see: Prostate-Specific Antigen (PSA)	
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PT200		PT Link	37
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PT203		PT Link Tank Cover, for PT200	37
M3627	Mo a Hu	PTEN , Clone 6H2.1	109
		Q	
S2801		Quality Control Strips for use with Pascal Target Retrieval Pressure Chamber (100 Strips)	135
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X0903		Rabbit Immunoglobulin Fraction (Normal), Negative Control	121
X0936		Rabbit Immunoglobulin Fraction (Solid-Phase Absorbed), Negative Control	121
D0487	Gt a	Rabbit Immunoglobulins/AP	119
E0432	Gt a	Rabbit Immunoglobulins/Biotinylated	119
P0448	Gt a	Rabbit Immunoglobulins/HRP	119
M0737	Mo a	Rabbit Immunoglobulins , Clone MR12/53	120
Z0196	Sw a	Rabbit Immunoglobulins	120
D0306	Sw a	Rabbit Immunoglobulins/AP	120
E0353	Sw a	Rabbit Immunoglobulins/Biotinylated	120
E0431	Sw a	Rabbit Immunoglobulins/Biotinylated , Swine F(ab) ₂	120

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F0205	Sw a	Rabbit Immunoglobulins/FITC	120
P0217	Sw a	Rabbit Immunoglobulins/HRP	120
P0399	Sw a	Rabbit Immunoglobulins/HRP	120
K8009		Rabbit (LINKER), EnVision FLEX+ , for Autostainer Link Instruments	53 129
K8019		Rabbit (LINKER), EnVision FLEX+ , for Dako Autostainer Instruments	60 129
X0902		Rabbit Serum (Normal)	121
P0450	Rb a	Rat Immunoglobulins/HRP	120
M7248	Mo a	Rat Ki-67 Antigen , Clone MIB-5	98
SK200		Reagent Bottles, User-Fillable, 5 mL, 25 bottles , for Autostainer Link Instruments	36
SK201		Reagent Bottles, User-Fillable, 12 mL, 25 bottles , for Autostainer Link Instruments	36
SK202		Reagent Bottles, User-Fillable, 25 mL, 25 bottles , for Autostainer Link Instruments	36
SK203		Reagent Bottles, User-Fillable, 50 mL, 25 bottles , for Autostainer Link Instruments	36
AR409		Reagent Holder, 14 Pack, Artisan	191
S3424		Reagent Racks, Dako Autostainer (2 Racks)	54
S3425		Reagent Vials, Dako Autostainer (100 Vials)	54
M3632	Mo a Hu	Renal Cell Carcinoma Marker , Clone SPM314	109
GA075	Mo a Hu	Renal Cell Carcinoma Marker , Clone SPM314, Ready-to-Use, FLEX, for Dako Omnis	31 109
IR075	Mo a Hu	Renal Cell Carcinoma Marker , Clone SPM314, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 109
IS075	Mo a Hu	Renal Cell Carcinoma Marker , Clone SPM314, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 109
G111202		RET BA P5, SureFISH	175
G111402		RET BA P20, SureFISH	175
G211402		RET BA P20 x 6, SureFISH	175
G111902		RET BA P200, SureFISH	175
AR182		Reticulin/No Counterstain Stain Kit, Artisan (100 Tests)	197
AR179		Reticulin/Nuclear Fast Red Stain Kit, Artisan (50 Tests/100 Tests)	197
M7300	Mo a Hu	Ribosomal Protein S6-pS240, Phosphorylation Site Specific , Clone DAK-S6-240	110
PT109		Rinse Station, PT Link	37
G111201		ROS BA P5 SureFISH	175
G111401		ROS BA P20, SureFISH	175
G211401		ROS BA P20 x 6, SureFISH	175
G111901		ROS BA P200, SureFISH	175
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Z0311	Rb a	S100	110
GA504	Rb a	S100 , Ready-to-Use, FLEX, for Dako Omnis	31 110
IR504	Rb a	S100 , Ready-to-Use, FLEX, for Autostainer Link Instruments	50 110
IS504	Rb a	S100 , Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 110
IC001	a Hu	S100 + Tyrosinase + Melan-A , Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	116
A5114	Rb a Hu	S100A4	110
M0758	Mo a Hu	Serotonin , Clone 5HT-H209	110
P0163	Rb a	Sheep Immunoglobulins/HRP	120
		Sialophorin , see: CD43	
S3417		Slide Label Kit, Large Flap (3000 Labels)	137
DL213		Slide Label Kit, Small Flap (1500 Labels)	137 191
S3386		Slide Labels, Large Flap (500 Labels)	137
S3393		Slide Labels, Small Flap (500 Labels)	137
S3380		Slide Labels, Square Flap (500 Labels)	137
S3704		Slide Racks, Autostainer (4 Racks)	54
CS119		Slide Rack, Dako CoverStainer (10 Racks)	185
GC101		Slide Rack, Dako Omnis (6 Racks)	23
GC104		Slide Rack Color Clip, Blue , for Dako Omnis (25 clips)	23
GC106		Slide Rack Color Clip, Grey , for Dako Omnis (25 clips)	23
GC105		Slide Rack Color Clip, Green , for Dako Omnis (25 clips)	23
GC103		Slide Rack Color Clip, Red , for Dako Omnis (25 clips)	23
S3003		Slides, Silanized	135
GC201		Small Vial, 2 mL , for Dako Omnis	23
M0851	Mo a Hu	Smooth Muscle Actin , Clone 1A4	73
IR611	Mo a Hu	Smooth Muscle Actin , Clone 1A4, Ready-to-Use, FLEX, for Autostainer Link Instruments	41 73
IS611	Mo a Hu	Smooth Muscle Actin , Clone 1A4, Ready-to-Use, FLEX, for Dako Autostainer Instruments	56 73
M3558	Mo a Hu	Smooth Muscle Myosin Heavy Chain , Clone SMMS-1	104
IR066	Mo a Hu	Smooth Muscle Myosin Heavy Chain , Clone SMMS-1, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 104
IS066	Mo a Hu	Smooth Muscle Myosin Heavy Chain , Clone SMMS-1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 104
A0566	Rb a Hu	Somatostatin	110
PT102		Spare Tank , for PT Link	37
PT103		Spare Tank Cover , for PT Link	37

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AR310		Special Staining System, Artisan Link Pro	189
		Special Stains Reagents	192-197
P0397		Streptavidin/HRP	132
S1803		Stringent Wash (2 x SSC), Nucleic Acid Blotting	178
GM303		Stringent Wash Buffer (20x) , for In Situ Hybridization on Dako Omnis	24 179
GC203		Sulfuric Acid, 0.3 M , for Dako Omnis	23
M3624	Mo a Hu	Survivin , Clone 12C4	110
X0901		Swine Serum (Normal)	121
M7315	Mo a Hu	Synaptophysin , Clone DAK-SYNAP	110
IR660	Mo a Hu	Synaptophysin , Clone DAK-SYNAP, Ready-to-Use, FLEX, for Autostainer Link Instruments	50 110
		Syndecan-1 , see: CD138	
		T	
S1700		Target Retrieval Solution , Ready-to-Use	134
S1699		Target Retrieval Solution , 10x Concentrated	134
S2369		Target Retrieval Solution, Citrate pH 6 , 10x Concentrated	134
S2368		Target Retrieval Solution, pH 9 , Ready-to-Use	134
S2375		Target Retrieval Solution, pH 9 (10x) , (3-in-1)	134
S2367		Target Retrieval Solution, pH 9 , 10x Concentrated	134
K8004		Target Retrieval Solution, High pH (50x), EnVision FLEX	53 60 129
K8005		Target Retrieval Solution, Low pH (50x), EnVision FLEX	53 60 129
S1968		TBS (Tris-Buffered Saline) pH 7.6 (2 x 5 L)	134
S3001		TBS (Tris-Buffered Saline) pH 7.6 (6 x 1 L)	134
S3306		TBST (Tris-Buffered Saline with Tween 20) pH 7.6 , 10x Concentrated (500 mL)	134
		TdT , see: Terminal Deoxynucleotidyl Transferase	
K5326		Telomere PNA FISH Kit/Cy3 (20 Tests)	171
K5325		Telomere PNA FISH Kit/FITC (20 Tests)	171
		TEP1 , see: PTEN	
M3651	Rb a Hu	Terminal Deoxynucleotidyl Transferase (TdT) , Clone EP266	111
IR093	Rb a Hu	Terminal Deoxynucleotidyl Transferase (TdT) , Clone EP266, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 111
M0617	Mo a	Thrombomodulin , Clone 1009	111
M3614	Mo a Hu	Thymidylate Synthase , Clone TS106	111
M0781	Mo a Hu	Thyroglobulin , Clone DAK-Tg6	111
A0251	Rb a Hu	Thyroglobulin	111 118
GA509	Rb a Hu	Thyroglobulin , Ready-to-Use, FLEX, for Dako Omnis	31 111
IR509	Rb a Hu	Thyroglobulin , Ready-to-Use, FLEX, for Autostainer Link Instruments	51 111
IS509	Rb a Hu	Thyroglobulin , Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 111
M7257	Mo a Hu	Thyroid Peroxidase , Clone MoAb47	112
M3503	Mo a Hu	Thyroid-Stimulating Hormone (TSH) , Clone 0042	112
M3575	Mo a	Thyroid Transcription Factor (TTF-1) , Clone 8G7G3/1	112
IR056	Mo a	Thyroid Transcription Factor (TTF-1) , Clone 8G7G3/1, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 112
IS056	Mo a	Thyroid Transcription Factor (TTF-1) , Clone 8G7G3/1, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 112
		TIMP-1 , see: Tissue Inhibitor of Metalloproteinases 1	
M7293	Mo a Hu	Tissue Inhibitor of Metalloproteinases 1 , Clone VT7	112
M7186	Mo a Hu	Topoisomerase IIα , Clone Ki-S1	112
S3306		Tris-Buffered NaCl Solution with Tween 20 (TBST), pH 7.6 , 10x Concentrated	134
S1968		Tris-Buffered Saline (TBS), pH 7.6 (2 x 5 L)	134
S3001		Tris-Buffered Saline (TBS), pH 7.6 (6 x 1 L)	134
		Tryptase , see: Mast Cell Tryptase	
		TS , see: Thymidylate Synthase	
		TTF-1 , see: Thyroid Transcription Factor	
S1966		Tween 20	134
M3623	Mo a Hu	Tyrosinase , Clone T311	112
IR061	Mo a Hu	Tyrosinase , Clone T311, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 112
IS061	Mo a Hu	Tyrosinase , Clone T311, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 112
IC001	a Hu	Tyrosinase + S100 + Melan-A , Ready-to-Use, DuoFLEX Cocktail, for Autostainer Link Instruments	116
		U	
S1964		Ultramount, Aqueous, Permanent Mounting Medium	135
DL412		Universal Label Printer (Link)	136 185 191
K0675		Universal LSAB2 Kit/HRP, Rabbit/Mouse (1100 Tests)	61 132
K0609		Universal LSAB2 Kit/HRP, for Rat Tissue, Rabbit/Mouse (150 Tests)	132
GA750		Universal Negative Control, Mouse, Ready-to-Use, FLEX , for Dako Omnis	32 121
IR750		Universal Negative Control, Mouse, Ready-to-Use, FLEX , for Autostainer Link Instruments	52 121
IS750		Universal Negative Control, Mouse, Ready-to-Use, FLEX , for Dako Autostainer Instruments	59 121
GA600		Universal Negative Control, Rabbit, Ready-to-Use, FLEX , for Dako Omnis	32 121

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IR600		Universal Negative Control, Rabbit, Ready-to-Use, FLEX , for Autostainer Link Instruments	52 121
IS600		Universal Negative Control, Rabbit, Ready-to-Use, FLEX , for Dako Autostainer/Autostainer Plus	59 121
M7294	Mo a Hu	uPAR , Clone R4	113
		Urokinase-Type Plasminogen Activator Receptor , see: uPAR	
		V	
M7273	Mo a Hu	Vascular Endothelial Growth Factor (VEGF) , Clone VG1	113
GC202		Vial, Large 30 mL , for Dako Omnis	23
GC201		Vial, Small 2 mL , for Dako Omnis	23
GC206		Vial with Mixing Ball, 2 mL , for ISH on Dako Omnis	24 179
M3637	Mo a	Villin , Clone 1D2 C3	113
IR076	Mo a	Villin , Clone 1D2 C3, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 113
IS076	Mo a	Villin , Clone 1D2 C3, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 113
M0725	Mo a	Vimentin , Clone V9	113
GA630	Mo a	Vimentin , Clone V9, Ready-to-Use, FLEX, for Dako Omnis	32 113
IR630	Mo a	Vimentin , Clone V9, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 113
IS630	Mo a	Vimentin , Clone V9, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 113
M7020	Mo a	Vimentin , Clone Vim 3B4	114
M0616	Mo a Hu	Von Willebrand Factor , Clone F8/86	114
A0082	Rb a Hu	Von Willebrand Factor	114
GA527	Rb a Hu	Von Willebrand Factor , Ready-to-Use, FLEX, for Dako Omnis	32 114
IR527	Rb a Hu	Von Willebrand Factor , Ready-to-Use, FLEX, for Autostainer Link Instruments	51 114
IS527	Rb a Hu	Von Willebrand Factor , Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 114
		W	
M7202	Mo a Hu	WAF1/Cip1 , Clone SX118	106
AR181		Warthin-Starry Stain Kit, Artisan (50 Tests/100 Tests)	197
S3006		Wash Buffer (10x) , for Immunohistochemistry	54 134
GC807		Wash Buffer (20x) , for Dako Omnis	23 128
K8007		Wash Buffer (20x), EnVision FLEX	53 60 129
AR102		Wash Solution (50x), Artisan	191
M7298	Mo a Hu	Wild-Type EGFR , Clone DAK-H1-WT	91
M3561	Mo a Hu	Wilms' Tumor 1 (WT1) Protein , Clone 6F-H2	114
IR055	Mo a Hu	Wilms' Tumor 1 (WT1) Protein , Clone 6F-H2, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 114
IS055	Mo a Hu	Wilms' Tumor 1 (WT1) Protein , Clone 6F-H2, Ready-to-Use, FLEX, for Dako Autostainer Instruments	58 114
		Z	
M7303	Mo a Hu	ZAP-70 , Clone 2F3.2	114
IR653	Mo a Hu	ZAP-70 , Clone 2F3.2, Ready-to-Use, FLEX, for Autostainer Link Instruments	51 114

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, <i>HER2</i> FISH
epiligrin	laminin-5, gamma-2 chain
erbB-1	epidermal growth factor receptor
ERBB2	c-erbB-2 oncoprotein, HercepTest, <i>HER2</i> 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 List (continued)

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
GP1Ib/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	CD79 α
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
K homology domain containing protein overexpressed in cancer	IMP3
Ki-1 antigen	CD30

Synonym	Name Used in Dako Product
KOC	IMP3
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	CD79 α
membrane attack complex	C5b-9
MGA	mammaglobin
MHC-I	HLA-ABC antigen
MHC-II	HLA-DP, DO, 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

Synonym List (continued)

Synonym	Name Used in Dako Product
nepilysin	CD10
nerve cadherin	N-cadherin
neu oncoprotein	c-erbB-2 oncoprotein, HercepTest, <i>HER2</i> 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
p145	CD117, c-kit
p185HER2	c-erbB-2 oncoprotein, HercepTest, <i>HER2</i> 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
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
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	112
02A3	Adrenocorticotropin (ACTH)	M3501	73
1A4	Smooth Muscle Actin	M0851	73
1D2 C3	Villin	M3637	113
1F8	CD21, B Cell	M0784	80
2B11 + PD7/26	CD45, Leucocyte Common Antigen	M0701	82
2F3.2	ZAP-70	M7303	114
2F11	Neurofilament Protein	M0762	104
3E6	Prostate-Specific Membrane Antigen (PSMA)	M3620	109
4B12	CD4	M7310	78
4C7	CD5	M3641	78
4C7	Laminin	M0638	99
4F9	ERCC1	M3648	92
4G1	Laminin-5, Gamma-2 Chain	M7262	99
4KB5	CD45RA	M0754	83
5.8A	MyoD1	M3512	103
5-D8/1	Enterovirus	M7064	91
5HT-H209	Serotonin	M0758	110
6F2	Glial Fibrillary Acidic Protein (GFAP)	M0761	94
6F/3D	Beta-Amyloid	M0872	75
6F-H2	Wilms' Tumor 1 (WT1) Protein	M3561	114
6G11	N-Cadherin	M3613	104
6H2.1	PTEN	M3627	109
8A9	Placental Alkaline Phosphatase	M7191	107
8G7G3/1	Thyroid Transcription Factor	M3575	112
10E3	Prostein	M3615	109
12C4	Survivin	M3624	110
12E7	CD99, MIC2 Gene Products, Ewing's Sarcoma Marker	M3601	84
13H4	AMACR	M3616	74
14-5	Akt-pS473, Phosphorylation Site Specific	M3628	73
23A3	Gross Cystic Disease Fluid Protein-15	M3638	95
34βE12	Cytokeratin, High MW	M0630	90
55K-2	Fascin	M3567	93
56C6	CD10	M7308	79
69.1	IMP3	M3626	97
101	MCM3 Protein	M7263	100
1116-NS-19-9	CA 19-9	M3517	76
123C3	CD56	M7304	83
124	BCL2 Oncoprotein	M0887	74
151	BCL10 Protein	M7260	75
304-1A5	Mammaglobin	M3625	100
318-6-11	p53 Protein	M3629	106
376	Nucleophosmin	M7305	105
1009	Thrombomodulin	M0617	111
A103	Melan-A	M7196	100
AA1	Mast Cell Tryptase	M7052	100
AB75	CD2	M7309	78
AE1/AE3	Cytokeratin	M3515	87

Clone	Antibody	Code	Page
ALK1	CD246, ALK Protein	M7195	86
Alpha-Sr-1	Actin (Sarcomeric)	M0874	73
AR441	Androgen Receptor	M3562	74
β-Catenin-1	Beta-Catenin	M3539	75
BBS/NC/VI-H14	Neuron-Specific Enolase (NSE)	M0873	104
Ber-EP4	Epithelial Antigen	M0804	91
Ber-H2	CD30	M0751	81
Ber-MAC-DRC	CD35	M0846	82
Bu20a	Bromodeoxyuridine	M0744	75
C8/144B	CD8	M7103	79
C10	Follicle-Stimulating Hormone (FSH)	M3504	93
C93	Luteinizing Hormone (LH)	M3502	99
CALP	Calponin	M3556	77
Carb-3	CD15	M3631	80
CBC.37	CD7	M7255	79
CCH2 + DDG9	Cytomegalovirus	M0854	90
CCP58	MUC2	M7313	101
CIV 22	Collagen IV	M0785	87
CLH1	MUC5AC	M7316	102
CNA.42	Follicular Dendritic Cell	M7157	94
CR3/43	HLA-DP, DQ, DR Antigen	M0775	96
CS.1-4	Epstein-Barr Virus, LMP	M0897	92
CX-294	COX-2	M3617	87
D2-40	Podoplanin	M3619	107
D5	MITF	M3621	101
D5/16 B4	Cytokeratin 5/6	M7237	88
D33	Desmin	M0760	90
DAK-A3	Chromogranin A	M0869	86
DAK-Calret 1	Calretinin	M7245	77
DAK-CD23	CD23	M7312	81
DAK-CDX2	CDX2	M3636	86
DAK-H1-1197	EGFR-pY1197	M7299	91
DAK-H1-WT	EGFR, Wild-Type	M7298	91
DAK-H3-IC	HER3	M7292	93
DAK-Pax5	B-Cell-Specific Activator Protein	M7307	74
DAK-S6-240	Ribosomal Protein S6-pS240, Phosphorylation Site Specific	M7300	110
DAK-SYNAP	Synaptophysin	M7315	110
DAK-Tg6	Thyroglobulin	M0781	111
DBA.44	Leukaemia, Hairy Cell	M0880	99
DC 10	Cytokeratin 18	M7010	89
DDG9 + CCH2	Cytomegalovirus	M0854	90
DE-K10	Cytokeratin 10	M7002	88
DE-K13	Cytokeratin 10/13	M7003	88
DF1485	CD44, Phagocytic Glycoprotein-1	M7082	82
DF-T1	CD43	M0786	82
DO-7	p53 Protein	M7001	106
E3	Cytokeratin 17	M7046	89
E9	Metallothionein	M0639	101
E29	Epithelial Membrane Antigen (EMA)	M0613	92
EBM11	CD68	M0718	84

Antibody Clone Index (continued)

Clone	Antibody	Code	Page
EP12	Cyclin D1	M3642	87
EP17/EP30	Cytokeratin 8/18	M3652	88
EP49	MutS Protein Homolog 6	M3646	103
EP51	Postmeiotic Segregation Increased 2	M3647	107
EP111	ERG	M7314	92
EP266	Terminal Deoxynucleotidyl Transferase	M3651	111
ER-PR8	Prostate-Specific Antigen (PSA)	M0750	108
ES05	MutL Protein Homolog 1	M3640	102
F5D	Myogenin	M3559	104
F7.2.38	CD3	M7254	78
F8/86	Von Willebrand Factor	M0616	114
FE11	MutS Protein Homolog 2	M3639	102
GrB-7	Granzyme B	M7235	94
H11	Epidermal Growth Factor Receptor	M3563	91
HBME-1	Mesothelial Cell	M3505	101
h-CD	Caldesmon	M3557	76
HHF35	Muscle Actin	M0635	73
HMB-45	Melanosome	M0634	101
II-7	Carcinoembryonic Antigen	M7072	77
JC70A	CD31, Endothelial Cell	M0823	81
JC159	CD235a, Glycophorin A	M0819	85
JCB117	CD79 α	M7050	84
K1H8	Papillomavirus (HPV)	M3528	106
Kal-1	Human Immunodeficiency Virus (HIV), p24	M0857	96
Ki-S1	Topoisomerase II α	M7186	112
KP1	CD68	M0814	84
K α 20.8	Cytokeratin 20	M7019	89
L26	CD20cy	M0755	80
LAT-1	LAT Protein	M7279	99
LE-CD19	CD19	M7296	80
M11	CA 125	M3520	76
MAC 387	Myeloid/Histiocyte Antigen	M0747	103
MI15	CD138	M7228	85
MIB-1	Ki-67 Antigen	M7240	98
MIB-5	Rat Ki-67 Antigen	M7248	98
MNF116	Cytokeratin	M0821	87
MoAb47	Thyroid Peroxidase	M7257	112
MOC-31	Epithelial-Related Antigen	M3525	92
MR12/53	Rabbit Immunoglobulins	M0737	120
MUM1p	MUM1 Protein	M7259	102
N1NK	Octamer-Binding Transcription Factor 3/4	M3649	105
NCH-38	E-Cadherin	M3612	90
NP57	Neutrophil Elastase	M0752	105
010	CD1a	M3571	77
OCH1E5	Hepatocyte	M7158	95
OV-TL 12/30	Cytokeratin 7	M7018	88
PASE/4LJ	Prostatic Acid Phosphatase	M0792	109

Clone	Antibody	Code	Page
PC10	Proliferating Cell Nuclear Antigen	M0879	108
PD7/26 + 2B11	CD45, Leucocyte Common Antigen	M0701	82
PG-B6p	BCL6 Protein	M7211	75
PG-M1	CD68	M0876	84
PgR 636	Progesterone Receptor	M3569	108
PgR 1294	Progesterone Receptor	M3568	108
PPG5/10	Estrogen Receptor β 1	M7292	93
QEnd 10	CD34 Class II	M7165	82
R1	Inhibin α	M3609	97
R4	uPAR	M7294	113
RAM11	Macrophage	M0633	100
RCK108	Cytokeratin 19	M0888	89
Ret40f	Glycophorin C	M0820	94
SMMS-1	Smooth Muscle Myosin Heavy Chain	M3558	104
SN6h	CD105, Endoglin	M3527	85
SPM314	Renal Cell Carcinoma Marker	M3632	109
SX53G8	p27 ^{Kip1}	M7203	106
SX118	p21 ^{WAF1/Cip1}	M7202	106
T311	Tyrosinase	M3623	112
TAL.1B5	HLA-DR Antigen, Alpha-Chain	M0746	96
TB01	CD57	M7271	83
TS106	Thymidylate Synthase	M3614	111
TÜK4	CD14	M0825	79
UCHL1	CD45R0	M0742	83
V9	Vimentin	M0725	113
VG1	Vascular Endothelial Growth Factor (VEGF)	M7273	113
Vim 3B4	Vimentin	M7020	114
VS38c	Plasma Cell	M7077	107
VT7	Tissue Inhibitor of Metalloproteinases 1	M7293	112
W6/32	HLA-ABC Antigen	M0736	95
Y2/51	CD61, Platelet Glycoprotein IIIa	M0753	83

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	73 117
A0082	Polyclonal Rabbit Anti-Human Von Willebrand Factor	0.2 mL 2 mL	A008229 A008202	114
A0099	Polyclonal Rabbit Anti-Human Lysozyme EC 3.2.1.17	2 mL	A009902	99 118
A0191	Polyclonal Rabbit Anti-Human Kappa Light Chains	2 mL	A019102	98 117
A0193	Polyclonal Rabbit Anti-Human Lambda Light Chains	2 mL	A019302	98 118
A0231	Polyclonal Rabbit Anti-Human Chorionic Gonadotropin	2 mL	A023102	86
A0251	Polyclonal Rabbit Anti-Human Thyroglobulin	2 mL	A025102	111 118
A0262	Polyclonal Rabbit Anti-Human IgA	1 mL	A026201	96 117
A0398	Polyclonal Rabbit Anti-Human Myeloperoxidase	0.2 mL	A039829	103
A0423	Polyclonal Rabbit Anti-Human IgG	1 mL	A042301	96 117
A0425	Polyclonal Rabbit Anti-Human IgM	1 mL	A042501	97 117
A0452	Polyclonal Rabbit Anti-Human CD3	0.2 mL 1 mL	A045229 A045201	78
A0485	Polyclonal Rabbit Anti-Human c-erbB-2 Oncoprotein	0.2 mL	A048529	86
A0562	Polyclonal Rabbit Anti-Human Prostate-Specific Antigen	1 mL	A056201	108
A0564	Polyclonal Guinea Pig Anti-Insulin	1 mL	A056401	97
A0566	Polyclonal Rabbit Anti-Human Somatostatin	1 mL	A056601	110
A0568	Polyclonal Rabbit Anti-Human Gastrin	1 mL	A056801	94
A0569	Polyclonal Rabbit Anti-Human Prolactin	1 mL	A056901	108
A0570	Polyclonal Rabbit Anti-Human Growth Hormone	1 mL	A057001	95
A0576	Polyclonal Rabbit Anti-Human Calcitonin	1 mL	A057601	76
A0623	Polyclonal Rabbit Anti-Human Myelin Basic Protein	1 mL	A062301	103
A4502	Polyclonal Rabbit Anti-Human CD117, c-kit	0.2 mL	A450229	85
A5114	Polyclonal Rabbit Anti-Human S100A4	1 mL	A511401	110
AR102	Artisan Wash Solution (x 50)	4 x 200 mL	AR10211	191
AR158	Artisan Iron Stain Kit	50 tests 100 tests	AR15892 AR15811	196
AR160	Artisan Alcian Blue pH 2.5 Stain Kit	50 tests 100 tests	AR16092 AR16011	194
AR161	Artisan Congo Red Stain Kit	50 tests 100 tests	AR16192 AR16111	195
AR162	Artisan Acid-Fast Bacteria (AFB) Stain Kit	50 tests 100 tests	AR16292 AR16211	194
AR163	Artisan Elastic Stain Kit	50 tests 100 tests	AR16392 AR16311	195
AR164	Artisan Giemsa Stain Kit	50 tests	AR16492	195
AR165	Artisan Periodic Acid Schiff (PAS) Stain Kit	50 tests 100 tests	AR16592 AR16511	197
AR166	Artisan Gomori's Green Trichrome Stain Kit	50 tests	AR16692	195
AR167	Artisan Gomori's Trichrome Stain Kit	50 tests	AR16792	195
AR168	Artisan Mucicarmine Stain Kit	50 tests 100 tests	AR16892 AR16811	196
AR169	Artisan Alcian Blue/PAS Stain Kit	50 tests 100 tests	AR16992 AR16911	194
AR171	Artisan Alpha-Amylase	50 tests 100 tests	AR17192 AR17111	191
AR172	Artisan PAS-Green Stain Kit	50 tests 100 tests	AR17292 AR17211	197
AR173	Artisan Masson's Trichrome Stain Kit	50 tests 100 tests	AR17392 AR17311	196
AR175	Artisan Gram Stain Kit	50 tests	AR17592	196
AR176	Artisan Grocott's Methenamine Silver (GMS) Stain Kit	50 tests 100 tests	AR17692 AR17611	196
AR178	Artisan Alcian Blue/PAS/Hematoxylin Stain Kit	50 tests 100 tests	AR17892 AR17811	194
AR179	Artisan Reticulin/Nuclear Fast Red Stain Kit	50 tests 100 tests	AR17992 AR17911	197

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
AR180	Artisan Jones' Basement Membrane (PAS-M) Stain Kit	100 tests	AR18011	196
AR181	Artisan Warthin-Starry Stain Kit	50 tests 100 tests	AR18192 AR18111	197
AR182	Artisan Reticulin/No Counterstain Stain Kit	100 tests	AR18211	197
AR306	Artisan Gram Yellow Stain Kit	50 tests	AR30692	192
AR307	Artisan Colloidal Iron Stain Kit	50 tests	AR30792	192
AR308	Artisan Jenner-Wright Giemsa Stain Kit	50 tests	AR30892	192
AR309	Artisan Clearing Solution	5 x 100 tests	AR30911	191
AR310	Artisan Link Pro Special Staining System	1 unit	AR31030	189
AR313	Artisan Orcein Stain Kit	50 tests	AR31392	193
AR314	Artisan Maintenance Kit	33 tests	AR31411	191
AR362	Artisan Acid-Fast Bacteria (AFB) Light Green Stain Kit	50 tests	AR36292	192
AR376	Artisan Grocott's Methenamine Silver Eosin Stain Kit	50 tests	AR37692	193
AR380	Artisan Jones' Basement Membrane Light Green (PAS-M) Stain Kit	50 tests	AR38092	193
AR409	Artisan 14 Pack Reagent Holder	1 unit	AR40930	191
AR480	Artisan Jones' Basement Membrane H&E (PAS-M) Stain Kit	100 tests	AR48011	193
AS480	Autostainer Link 48	1 unit	AS48030	35
B				
B0114	Polyclonal Rabbit Anti-Herpes Simplex Virus Type 1	2 mL	B011402	95
B0116	Polyclonal Rabbit Anti-Herpes Simplex Virus Type 2	2 mL	B011602	95
B0357	Polyclonal Rabbit Anti-Escherichia Coli	2 mL	B035702	117
B0471	Polyclonal Rabbit Anti-Helicobacter Pylori	0.2 mL 1 mL	B047129 B047101	95
B0586	Polyclonal Rabbit Anti-Hepatitis B Virus Core Antigen	1 mL	B058601	95
C				
C0563	Glycergel®, Aqueous Mounting Medium	15 mL	C056330	135
CR100	Dako Coverslipper	1 unit	CR10030	184
CR121	Cover Glass, 24 mm x 60 mm	5 x 200 pcs	CR12130	185
CR122	Cover Glass, 24 mm x 55 mm	5 x 200 pcs	CR12230	185
CR124	Cover Glass, 24 mm x 40 mm	5 x 200 pcs	CR12430	185
CS100	Dako CoverStainer	1 unit	CS10030	183
CS119	Dako CoverStainer Slide Rack	10 racks	CS11930	185
CS700	Dako Hematoxylin	Up to 3000 tests, 1 L	CS70030	185
CS701	Dako Eosin	Up to 3000 tests, 1 L	CS70130	185
CS702	Dako Bluing Buffer	Up to 3000 tests, 1 L	CS70230	185
CS703	Dako Mounting Medium	473 mL	CS70330	185
CS704	Dako Cover Glass, 24 x 50 mm	5 x 200 pcs	CS70430	185
CS705	Dako Toluene-Free Mounting Medium	500 mL	CS70530	185
D				
D0306	Polyclonal Swine Anti-Rabbit Immunoglobulins/AP	1 mL	D030601	120
D0314	Polyclonal Rabbit Anti-Mouse Immunoglobulins/AP	2 mL	D031402	119
D0336	Polyclonal Rabbit Anti-Human IgG/AP	1 mL	D033601	96 117
D0486	Polyclonal Goat Anti-Mouse Immunoglobulins/AP	2 mL	D048602	119
D0487	Polyclonal Goat Anti-Rabbit Immunoglobulins/AP	1 mL	D048701	119
DL213	Slide Label Kit, Small Flap	1500 labels	DL21330	137
DL412	Universal Label Printer (Link)	1 unit	DL41230	136
E				
E0353	Polyclonal Swine Anti-Rabbit Immunoglobulins/Biotinylated	1 mL	E035301	120
E0354	Polyclonal Rabbit Anti-Mouse Immunoglobulins/Biotinylated	1 mL	E035401	119
E0413	Polyclonal Rabbit Anti-Mouse Immunoglobulins/Biotinylated, Rabbit F(ab') ₂	1 mL	E041301	119

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
E0431	Polyclonal Swine Anti-Rabbit Immunoglobulins/Biotinylated, Swine F(ab') ₂	1 mL	E043101	120
E0432	Polyclonal Goat Anti-Rabbit Immunoglobulins/Biotinylated	1 mL	E043201	119
E0433	Polyclonal Goat Anti-Mouse Immunoglobulins/Biotinylated	1 mL	E043301	119
E0466	Polyclonal Rabbit Anti-Goat Immunoglobulins/Biotinylated	1 mL	E046601	119
F				
F0111	Polyclonal Rabbit Anti-Human Fibrinogen/FITC	2 mL	F011102	93 117
F0117	Polyclonal Rabbit Anti-Human Albumin/FITC	2 mL	F011702	73
F0169	Polyclonal Rabbit Anti-Human C4c Complement/FITC	2 mL	F016902	75
F0198	Polyclonal Rabbit Anti-Human Kappa Light Chains/FITC	2 mL	F019802	98 117
F0199	Polyclonal Rabbit Anti-Human Lambda Light Chains/FITC	2 mL	F019902	98 118
F0200	Polyclonal Rabbit Anti-Human IgA, IgG, IgM, Kappa, Lambda/FITC	2 mL	F020002	96 117
F0201	Polyclonal Rabbit Anti-Human C3c Complement/FITC	2 mL	F020102	75
F0202	Polyclonal Rabbit Anti-Human IgG/FITC	2 mL	F020202	96 117
F0203	Polyclonal Rabbit Anti-Human IgM/FITC	2 mL	F020302	97 117
F0204	Polyclonal Rabbit Anti-Human IgA/FITC	2 mL	F020402	96 117
F0205	Polyclonal Swine Anti-Rabbit Immunoglobulins/FITC	2 mL	F020502	120
F0232	Polyclonal Rabbit Anti-Mouse Immunoglobulins/FITC	2 mL	F023202	119
F0250	Polyclonal Rabbit Anti-Goat Immunoglobulins/FITC	2 mL	F025002	119
F0254	Polyclonal Rabbit Anti-Human C1q Complement/FITC	2 mL	F025402	75
F0261	Polyclonal Rabbit Anti-Mouse Immunoglobulins/FITC	2 mL	F026102	119
F0315	Polyclonal Rabbit Anti-Human IgG/FITC, Rabbit F(ab') ₂	1 mL	F031501	96 117
F0316	Polyclonal Rabbit Anti-Human IgA/FITC, Rabbit F(ab') ₂	1 mL	F031601	96
G				
G111200	SureFISH ALK BA P5	5 µL	G111200	175
G111201	SureFISH ROS1 BA P5	5 µL	G111201	175
G111202	SureFISH RET BA P5	5 µL	G111202	175
G111400	SureFISH ALK BA P20	20 µL	G111400	175
G111401	SureFISH ROS1 BA P20	20 µL	G111401	175
G111402	SureFISH RET BA P20	20 µL	G111402	175
G111900	SureFISH ALK BA P200	200 µL	G111900	175
G111901	SureFISH ROS1 BA P200	200 µL	G111901	175
G111902	SureFISH RET BA P200	200 µL	G111902	175
G211400	SureFISH ALK BA P20x6	20 µL, 6 vials	G211400	175
G211401	SureFISH ROS1 BA P20x6	20 µL, 6 vials	G211401	175
G211402	SureFISH RET BA P20 x 6	20 µL, 6 vials	G211402	175
G9414A	IQFISH Fast Hybridization Buffer 9000	900 µL	G9414A	180
G9415A	IQFISH Fast Hybridization Buffer 200	200 µL	G9415A	180
G9416A	IQFISH Fast Hybridization Buffer 200x6	200 µL, 6 vials	G9416A	180
GA051	FLEX Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34βE12, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA05161	29 90
GA052	FLEX Monoclonal Mouse Anti-Human Melanosome, Clone HMB-45, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA05261	31 101
GA053	FLEX Monoclonal Mouse Anti-Human Cytokeratin, Clone AE1/AE3, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA05361	29 87
GA054	FLEX Monoclonal Mouse Anti-Human Caldesmon, Clone h-CD, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA05461	26 76
GA059	FLEX Monoclonal Mouse Anti-Human E-Cadherin, Clone NCH-38, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA05961	29 90
GA060	FLEX Monoclonal Rabbit Anti-Human AMACR, Clone 13H4, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA06061	26 74
GA062	FLEX Monoclonal Mouse Anti-Human CD15, Clone Carb-3, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA06261	27 80
GA074	FLEX Monoclonal Mouse Anti-Human Mammaglobin, Clone 304-1A5, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA07461	30 100
GA075	FLEX Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker, Clone SPM314, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA07561	31 109
GA077	FLEX Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15, Clone 23A3, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA07761	30 95

♦ Packaged in vials for use with Dako Omnis

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
GA080	FLEX Monoclonal Mouse Anti-Human CDX2, Clone DAK-CDX2, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA08061	28 86
GA083	FLEX Monoclonal Rabbit Anti-Human Cyclin D1, Clone EP12, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA08361	28 87
GA500	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Fetoprotein, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA50061	26 73
GA503	FLEX Polyclonal Rabbit Anti-Human CD3, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA50361	27 78
GA504	FLEX Polyclonal Rabbit Anti-S100, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA50461	31 110
GA506	FLEX Polyclonal Rabbit Anti-Human Kappa Light Chains, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA50661	30 98
GA507	FLEX Polyclonal Rabbit Anti-Human Lambda Light Chains, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA50761	30 98
GA508	FLEX Polyclonal Rabbit Anti-Human Chorionic Gonadotropin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA50861	28 86
GA509	FLEX Polyclonal Rabbit Anti-Human Thyroglobulin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA50961	31 111
GA510	FLEX Polyclonal Rabbit Anti-Human IgA, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA51061	30 96
GA511	FLEX Polyclonal Rabbit Anti-Human Myeloperoxidase, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA51161	31 103
GA514	FLEX Polyclonal Rabbit Anti-Human Prostate-Specific Antigen, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA51461	31 108
GA515	FLEX Polyclonal Rabbit Anti-Human Calcitonin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA51561	26 76
GA519	FLEX Polyclonal Rabbit Anti-Human Gastrin, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA51961	30 94
GA524	FLEX Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA52461	30 94
GA526	FLEX Polyclonal Rabbit Anti-Human Carcinoembryonic Antigen, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA52661	26 77
GA527	FLEX Polyclonal Rabbit Anti-Human Von Willebrand Factor, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA52761	32 114
GA600	FLEX Universal Negative Control, Rabbit, Ready-to-Use (Dako Omnis)	120 tests, 24 mL♦	GA60066	32 121
GA604	FLEX Monoclonal Mouse Anti-Human CD20cy, Clone L26, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA60461	27 80
GA607	FLEX Monoclonal Mouse Anti-Human Neurofilament Protein, Clone 2F11, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA60761	31 104
GA609	FLEX Monoclonal Mouse Anti-Human CD68, Clone KP1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA60961	28 84
GA610	FLEX Monoclonal Mouse Anti-Human CD31, Endothelial Cell, Clone JC70A, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA61061	27 81
GA613	FLEX Monoclonal Mouse Anti-Human CD68, Clone PG-M1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA61361	28 84
GA615	FLEX Monoclonal Mouse Anti-Human Cytokeratin 19, Clone RCK108, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA61561	29 89
GA616	FLEX Monoclonal Mouse Anti-Human p53 Protein, Clone DO-7, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA61661	31 106
GA618	FLEX Monoclonal Mouse Anti-Human Cytokeratin 18, Clone DC 10, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA61861	29 89
GA619	FLEX Monoclonal Mouse Anti-Human Cytokeratin 7, Clone OV-TL 12/30, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA61961	29 88
GA621	FLEX Monoclonal Mouse Anti-Human CD79α, Clone JCB117, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA62161	28 84
GA622	FLEX Monoclonal Mouse Anti-Human Carcinoembryonic Antigen, Clone II-7, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA62261	26 77
GA623	FLEX Monoclonal Mouse Anti-Human CD8, Clone C8/144B, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA62361	27 79
GA624	FLEX Monoclonal Mouse Anti-Human Hepatocyte, Clone OCH1E5, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA62461	30 95
GA625	FLEX Monoclonal Mouse Anti-Human BCL6 Protein, Clone PG-B6p, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA62561	26 75
GA626	FLEX Monoclonal Mouse Anti-Human Ki-67 Antigen, Clone MIB-1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA62661	30 98
GA630	FLEX Monoclonal Mouse Anti-Vimentin, Clone V9, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA63061	32 113
GA632	FLEX Monoclonal Mouse Anti-Human CD34 Class II, Clone QBEnd 10, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA63261	27 82
GA636	FLEX Monoclonal Mouse Anti-Human CD43, Clone DF-T1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA63661	28 82
GA637	FLEX Monoclonal Mouse Anti-Human Epithelial Antigen, Clone Ber-EP4, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA63761	29 91
GA641	FLEX Monoclonal Mouse Anti-Human CD246, ALK Protein, Clone ALK1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA64161	28 86
GA642	FLEX Monoclonal Mouse Anti-Human CD138, Clone MI15, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA64261	28 85
GA643	FLEX Monoclonal Mouse Anti-Human CD7, Clone CBC.37, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA64361	27 79
GA644	FLEX Monoclonal Mouse Anti-Human MUM1 Protein, Clone MUM1p, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA64461	31 102
GA648	FLEX Monoclonal Mouse Anti-Human CD10, Clone 56C6, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA64861	27 79
GA650	FLEX Monoclonal Mouse Anti-Human B-Cell-Specific Activator Protein, Clone DAK-Pax5, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA65061	26 74
GA651	FLEX Monoclonal Mouse Anti-Human CD2, Clone AB75, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA65161	27 78
GA652	FLEX Monoclonal Mouse Anti-Human Nucleophosmin, Clone 376, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA65261	31 105
GA659	FLEX Monoclonal Rabbit Anti-Human ERG, Clone EP111, Ready-to-Use (Dako Omnis)	60 tests, 12 mL♦	GA65961	29 92

♦ Packaged in vials for use with Dako Omnis

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GA701	FLEX Monoclonal Mouse Anti-Human CA 125, Clone M11, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA70161	26 76
GA702	FLEX Monoclonal Mouse Anti-Human Beta-Catenin, Clone β -Catenin-1, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA70261	26 75
GA750	FLEX Universal Negative Control, Mouse, Ready-to-Use (Dako Omnis)	120 tests, 24 mL◆	GA75066	32 121
GA751	FLEX Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen, Clones 2B11 + PD7/26, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA75161	28 82
GA777	FLEX Monoclonal Mouse Anti-Human Cytokeratin 20, Clone K ₂₀ .8, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA77761	29 89
GA780	FLEX Monoclonal Mouse Anti-Human Cytokeratin 5/6, Clone D5/16 B4, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA78061	29 88
GA781	FLEX Monoclonal Mouse Anti-Human CD23, Clone DAK-CD23, Ready-to-Use (Dako Omnis)	60 tests, 12 mL◆	GA78161	27 81
GC101	Dako Omnis Slide Rack	6 racks	GC10130	23
GC102	Dako Omnis ISH Lid	5 lids	GC10230	24 179
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	24 179
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
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	24 179
GC207	ISH Cleaning Solution (Dako Omnis)	100 tests, 10 mL	GC20730	24 179
GC807	Wash Buffer (20x) (Dako Omnis)	20 x 175 mL, 1700 tests	GC80711	23 128
GC808	Hematoxylin (Dako Omnis)	8 x 22.5 mL, 600 tests	GC80811	23 128
GC810	Clarify™	3.8 L	GC81030	23
GI100	Dako Omnis	1 unit	GI10030	21
GM300	ISH Ethanol Solution, 96% (Dako Omnis)	20 tests, 14 mL	GM30011	24 179
GM301	ISH Pre-Treatment Solution (20x) (Dako Omnis)	175 mL	GM30111	24 179
GM302	ISH Pepsin (Dako Omnis)	20 tests, 7 mL	GM30211	24 179
GM303	ISH Stringent Wash Buffer (20x) (Dako Omnis)	175 mL	GM30311	24 179
GM304	Fluorescence Mounting Medium (Dako Omnis)	20 tests, 0.8 mL	GM30411	24 179
GV800	EnVision FLEX, High pH (Dako Omnis)	600 tests	GV80011	33 127
GV804	EnVision FLEX Target Retrieval Solution, High pH (50x) (Dako Omnis)	3 x 68 mL, 225 tests	GV80411	33 128
GV805	EnVision FLEX Target Retrieval Solution, Low pH (50x) (Dako Omnis)	3 x 68 mL, 225 tests	GV80511	33 128
GV809	EnVision FLEX+ Rabbit LINKER (Dako Omnis)	22.5 mL, 75 tests	GV80911	33 128
GV821	EnVision FLEX+ Mouse LINKER (Dako Omnis)	22.5 mL, 75 tests	GV82111	33 128
GV823	EnVision FLEX Mini Kit, High pH (Dako Omnis)	150 tests	GV82311	33 127
GV825	EnVision FLEX DAB+ Substrate Chromogen System (Dako Omnis)	150 tests	GV82511	23 128
I				
IC001	DuoFLEX Cocktail, Anti-S100, Anti-Tyrosinase, Anti-Melan-A, Ready-to-Use (Link)	6 mL	IC00106	116
IC002	DuoFLEX Cocktail, Anti-CD3, Anti-CD20cy, Ready-to-Use (Link)	6 mL	IC00206	115
IC004	DuoFLEX Cocktail, Anti-AMACR, Anti-Cytokeratin HMW, Anti-Cytokeratin 5/6, Ready-to-Use (Link)	6 mL	IC00406	115
IR002	FLEX Polyclonal Guinea Pig Anti-Insulin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR00261	47 97
IR051	FLEX Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34 β E12, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05161	46 90
IR052	FLEX Monoclonal Mouse Anti-Human Melanosome, Clone HMB-45, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05261	48 101
IR053	FLEX Monoclonal Mouse Anti-Human Cytokeratin, Clone AE1/AE3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05361	45 87
IR054	FLEX Monoclonal Mouse Anti-Human Caldesmon, Clone h-CD, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05461	42 76
IR055	FLEX Monoclonal Mouse Anti-Human Wilms' Tumor 1 (WT1) Protein, Clone 6F-H2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05561	51 114
IR056	FLEX Monoclonal Mouse Anti-Thyroid Transcription Factor, Clone 8G7G3/1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05661	51 112

- Packaged in vials for use with Autostainer Link 48
- ▲ Packaged in vials for use with Autostainer Link instruments

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Code	Product	Package Size	Order No.	Page
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 84
IR058	FLEX Monoclonal Mouse Anti-Human Inhibin α , Clone R1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05861	47 97
IR059	FLEX Monoclonal Mouse Anti-Human E-Cadherin, Clone NCH-38, Ready-to-Use (Link)	60 tests, 12 mL▲	IR05961	46 90
IR060	FLEX Monoclonal Rabbit Anti-Human AMACR, Clone 13H4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06061	41 74
IR061	FLEX Monoclonal Mouse Anti-Human Tyrosinase, Clone T311, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06161	51 112
IR062	FLEX Monoclonal Mouse Anti-Human CD15, Clone Carb-3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06261	43 80
IR066	FLEX Monoclonal Mouse Anti-Human Smooth Muscle Myosin Heavy Chain, Clone SMMS-1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06661	50 104
IR067	FLEX Monoclonal Mouse Anti-Myogenin, Clone F5D, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06761	49 104
IR068	FLEX Monoclonal Mouse Anti-Human Progesterone Receptor, Clone PgR 636, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06861	50 108
IR069	FLEX Monoclonal Mouse Anti-Human CD1a, Clone 010, Ready-to-Use (Link)	60 tests, 12 mL▲	IR06961	42 77
IR072	FLEX Monoclonal Mouse Anti-Human Podoplanin, Clone D2-40, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07261	50 107
IR074	FLEX Monoclonal Mouse Anti-Human Mammaglobin, Clone 304-1A5, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07461	48 100
IR075	FLEX Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker, Clone SPM314, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07561	50 109
IR076	FLEX Monoclonal Mouse Anti-Villin, Clone 1D2 C3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07661	51 113
IR077	FLEX Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15, Clone 23A3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07761	47 95
IR079	FLEX Monoclonal Mouse Anti-Human MutL Protein Homolog 1, Clone ES05, Ready-to-Use (Link)	60 tests, 12 mL▲	IR07961	48 102
IR080	FLEX Monoclonal Mouse Anti-Human CDX2, Clone DAK-CDX2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08061	45 86
IR082	FLEX Monoclonal Mouse Anti-Human CD5, Clone 4C7, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08261	42 78
IR083	FLEX Monoclonal Rabbit Anti-Human Cyclin D1, Clone EP12, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08361	45 87
IR084	FLEX Monoclonal Rabbit Anti-Human Estrogen Receptor α , Clone EP1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08461	46 93
IR085	FLEX Monoclonal Mouse Anti-Human MutS Protein Homolog 2, Clone FE11, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08561	49 102
IR086	FLEX Monoclonal Rabbit Anti-Human MutS Protein Homolog 6, Clone EP49, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08661	49 103
IR087	FLEX Monoclonal Rabbit Anti-Human Postmeiotic Segregation Increased 2, Clone EP51, Ready-to-Use (Link)	60 tests, 12 mL▲	IR08761	50 107
IR088	FLEX Monoclonal Mouse Anti-Human Prostein, Clone 10E3 (Link)	60 tests, 12 mL▲	IR08861	50 109
IR089	FLEX Monoclonal Mouse Anti-Human Prostate-Specific Membrane Antigen, Clone 3E6 (Link)	60 tests, 12 mL▲	IR08961	50 109
IR091	FLEX Monoclonal Mouse Anti-Human ERCC1, Clone 4F9, Ready-to-Use (Link)	60 tests, 12 mL▲	IR09161	46 92
IR092	FLEX Monoclonal Mouse Anti-Human Octamer-Binding Transcription Factor 3/4, Clone N1NK, Ready-to-Use (Link)	60 tests, 12 mL▲	IR09261	49 105
IR093	FLEX Monoclonal Rabbit Anti-Human Terminal Deoxynucleotidyl Transferase (TdT), Clone EP266, Ready-to-Use (Link)	60 tests, 12 mL▲	IR09361	51 111
IR094	FLEX Monoclonal Rabbit Anti-Human Cytokeratin 8/18, Clone EP17/EP30, Ready-to-Use (Link)	60 tests, 12 mL▲	IR09461	45 88
IR500	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Fetoprotein, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50061	41 73
IR503	FLEX Polyclonal Rabbit Anti-Human CD3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50361	42 78
IR504	FLEX Polyclonal Rabbit Anti-S100, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50461	50 110
IR506	FLEX Polyclonal Rabbit Anti-Human Kappa Light Chains, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50661	47 98
IR507	FLEX Polyclonal Rabbit Anti-Human Lambda Light Chains, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50761	48 98
IR508	FLEX Polyclonal Rabbit Anti-Human Chorionic Gonadotropin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50861	45 86
IR509	FLEX Polyclonal Rabbit Anti-Human Thyroglobulin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR50961	51 111
IR510	FLEX Polyclonal Rabbit Anti-Human IgA, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51061	47 96
IR511	FLEX Polyclonal Rabbit Anti-Human Myeloperoxidase, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51161	49 103
IR512	FLEX Polyclonal Rabbit Anti-Human IgG, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51261	47 96
IR513	FLEX Polyclonal Rabbit Anti-Human IgM, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51361	47 97
IR514	FLEX Polyclonal Rabbit Anti-Human Prostate-Specific Antigen, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51461	50 108
IR515	FLEX Polyclonal Rabbit Anti-Human Calcitonin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51561	41 76
IR517	FLEX Polyclonal Rabbit Anti-Human IgD, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51761	47 96
IR519	FLEX Polyclonal Rabbit Anti-Human Gastrin, Ready-to-Use (Link)	60 tests, 12 mL▲	IR51961	46 94
IR524	FLEX Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein, Ready-to-Use (Link)	60 tests, 12 mL▲	IR52461	47 94
IR526	FLEX Polyclonal Rabbit Anti-Human Carcinoembryonic Antigen, Ready-to-Use (Link)	60 tests, 12 mL▲	IR52661	42 77

▲ Packaged in vials for use with Autostainer Link instruments

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IR527	FLEX Polyclonal Rabbit Anti-Human Von Willebrand Factor, Ready-to-Use (Link)	60 tests, 12 mL▲	IR52761	51 114
IR600	FLEX Universal Negative Control, Rabbit, Ready-to-Use (Link)	120 tests, 24 mL▲	IR60066	52 121
IR602	FLEX Monoclonal Mouse Anti-Human CD30, Clone Ber-H2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60261	43 81
IR604	FLEX Monoclonal Mouse Anti-Human CD20cy, Clone L26, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60461	43 80
IR606	FLEX Monoclonal Mouse Anti-Human Desmin, Clone D33, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60661	46 90
IR607	FLEX Monoclonal Mouse Anti-Human Neurofilament Protein, Clone 2F11, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60761	49 104
IR608	FLEX Monoclonal Mouse Anti-Human CD21, Clone 1F8, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60861	43 80
IR609	FLEX Monoclonal Mouse Anti-Human CD68, Clone KP1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR60961	44 84
IR610	FLEX Monoclonal Mouse Anti-Human CD31, Endothelial Cell, Clone JC70A, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61061	43 81
IR611	FLEX Monoclonal Mouse Anti-Human Smooth Muscle Actin, Clone 1A4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61161	41 73
IR612	FLEX Monoclonal Mouse Anti-Human Neuron-Specific Enolase, Clone BBS/NC/VI-H14, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61261	49 104
IR613	FLEX Monoclonal Mouse Anti-Human CD68, Clone PG-M1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61361	44 84
IR614	FLEX Monoclonal Mouse Anti-Human BCL2 Oncoprotein, Clone 124, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61461	41 74
IR615	FLEX Monoclonal Mouse Anti-Human Cytokeratin 19, Clone RCK108, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61561	45 89
IR616	FLEX Monoclonal Mouse Anti-Human p53 Protein, Clone DO-7, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61661	49 106
IR618	FLEX Monoclonal Mouse Anti-Human Cytokeratin 18, Clone DC 10, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61861	45 89
IR619	FLEX Monoclonal Mouse Anti-Human Cytokeratin 7, Clone OV-TL 12/30, Ready-to-Use (Link)	60 tests, 12 mL▲	IR61961	45 88
IR620	FLEX Monoclonal Mouse Anti-Cytokeratin 17, Clone E3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62061	45 89
IR621	FLEX Monoclonal Mouse Anti-Human CD79 α , Clone JCB117, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62161	44 84
IR622	FLEX Monoclonal Mouse Anti-Human Carcinoembryonic Antigen, Clone II-7, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62261	42 77
IR623	FLEX Monoclonal Mouse Anti-Human CD8, Clone C8/144B, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62361	43 79
IR624	FLEX Monoclonal Mouse Anti-Human Hepatocyte, Clone OCH1E5, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62461	47 95
IR625	FLEX Monoclonal Mouse Anti-Human BCL6 Protein, Clone PG-B6p, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62561	41 75
IR626	FLEX Monoclonal Mouse Anti-Human Ki-67 Antigen, Clone MIB-1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62661	48 98
IR627	FLEX Monoclonal Mouse Anti-Human Calretinin, Clone DAK-Calret 1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62761	42 77
IR628	FLEX Monoclonal Mouse Anti-Human CD56, Clone 123C3, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62861	44 83
IR629	FLEX Monoclonal Mouse Anti-Human Epithelial Membrane Antigen, Clone E29, Ready-to-Use (Link)	60 tests, 12 mL▲	IR62961	46 92
IR630	FLEX Monoclonal Mouse Anti-Vimentin, Clone V9, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63061	51 113
IR632	FLEX Monoclonal Mouse Anti-Human CD34 Class II, Clone QBEnd 10, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63261	43 82
IR633	FLEX Monoclonal Mouse Anti-Human Melan-A, Clone A103, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63361	48 100
IR636	FLEX Monoclonal Mouse Anti-Human CD43, Clone DF-T1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63661	44 82
IR637	FLEX Monoclonal Mouse Anti-Human Epithelial Antigen, Clone Ber-EP4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR63761	46 91
IR640	FLEX Monoclonal Mouse Anti-Human Mast Cell Tryptase, Clone AA1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64061	48 100
IR641	FLEX Monoclonal Mouse Anti-Human CD246, ALK Protein, Clone ALK1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64161	44 86
IR642	FLEX Monoclonal Mouse Anti-Human CD138, Clone MI15, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64261	44 85
IR643	FLEX Monoclonal Mouse Anti-Human CD7, Clone CBC.37, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64361	42 79
IR644	FLEX Monoclonal Mouse Anti-Human MUM1 Protein, Clone MUM1p, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64461	48 102
IR647	FLEX Monoclonal Mouse Anti-Human CD57, Clone TB01, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64761	44 83
IR648	FLEX Monoclonal Mouse Anti-Human CD10, Clone 56C6, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64861	43 79
IR649	FLEX Monoclonal Mouse Anti-Human CD4, Clone 4B12, Ready-to-Use (Link)	60 tests, 12 mL▲	IR64961	42 78
IR650	FLEX Monoclonal Mouse Anti-Human B-Cell-Specific Activator Protein, Clone DAK-Pax5, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65061	41 74
IR651	FLEX Monoclonal Mouse Anti-Human CD2, Clone AB75, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65161	42 78
IR652	FLEX Monoclonal Mouse Anti-Human Nucleophosmin, Clone 376, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65261	49 105
IR653	FLEX Monoclonal Mouse Anti-Human ZAP-70, Clone 2F3.2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65361	51 114
IR656	FLEX Monoclonal Mouse Anti-Human CD19, Clone LE-CD19, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65661	43 80
IR658	FLEX Monoclonal Mouse Anti-Human MUC2, Clone CCP58, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65861	48 101
IR659	FLEX Monoclonal Rabbit Anti-Human ERG, Clone EP111, Ready-to-Use (Link)	60 tests, 12 mL▲	IR65961	46 92
IR660	FLEX Monoclonal Mouse Anti-Human Synaptophysin, Clone DAK-SYNAP, Ready-to-Use (Link)	60 tests, 12 mL▲	IR66061	50 110

▲ Packaged in vials for use with Autostainer Link instruments

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
IR661	FLEX Monoclonal Mouse Anti-Human MUC5AC, Clone CLH2, Ready-to-Use (Link)	60 tests, 12 mL▲	IR66161	48 102
IR700	FLEX Monoclonal Mouse Anti-Human Muscle Actin, Clone HHF35, Ready-to-Use (Link)	60 tests, 12 mL▲	IR70061	41 73
IR701	FLEX Monoclonal Mouse Anti-Human CA 125, Clone M11, Ready-to-Use (Link)	60 tests, 12 mL▲	IR70161	41 76
IR702	FLEX Monoclonal Mouse Anti-Human Beta-Catenin, Clone β -Catenin-1, Ready-to-Use (Link)	60 tests, 12 mL▲	IR70261	41 75
IR750	FLEX Universal Negative Control, Mouse, Ready-to-Use (Link)	120 tests, 24 mL▲	IR75066	52 121
IR751	FLEX Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen, Clones 2B11 + PD7/26, Ready-to-Use (Link)	60 tests, 12 mL▲	IR75161	44 82
IR777	FLEX Monoclonal Mouse Anti-Human Cytokeratin 20, Clone K ₂₀ .8, Ready-to-Use (Link)	60 tests, 12 mL▲	IR77761	46 89
IR779	FLEX Monoclonal Mouse Anti-Human Placental Alkaline Phosphatase, Clone 8A9, Ready-to-Use (Link)	60 tests, 12 mL▲	IR77961	49 107
IR780	FLEX Monoclonal Mouse Anti-Human Cytokeratin 5/6, Clone D5/16 B4, Ready-to-Use (Link)	60 tests, 12 mL▲	IR78061	45 88
IR781	FLEX Monoclonal Mouse Anti-Human CD23, Clone DAK-CD23 (Link)	60 tests, 12 mL▲	IR78161	43 81
IS002	FLEX Polyclonal Guinea Pig Anti-Insulin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS00230	58 97
IS051	FLEX Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34 β E12, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05130	57 90
IS052	FLEX Monoclonal Mouse Anti-Human Melanosome, Clone HMB-45, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05230	58 101
IS053	FLEX Monoclonal Mouse Anti-Human Cytokeratin, Clone AE1/AE3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05330	57 87
IS054	FLEX Monoclonal Mouse Anti-Human Caldesmon, Clone h-CD, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05430	56 76
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	58 114
IS056	FLEX Monoclonal Mouse Anti-Thyroid Transcription Factor, Clone 8G7G3/1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05630	58 112
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	57 84
IS058	FLEX Monoclonal Mouse Anti-Human Inhibin α , Clone R1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05830	57 97
IS059	FLEX Monoclonal Mouse Anti-Human E-Cadherin, Clone NCH-38, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS05930	57 90
IS060	FLEX Monoclonal Rabbit Anti-Human AMACR, Clone 13H4, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06030	56 74
IS061	FLEX Monoclonal Mouse Anti-Human Tyrosinase, Clone T311, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06130	58 112
IS062	FLEX Monoclonal Mouse Anti-Human CD15, Clone Carb-3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06230	56 80
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	58 104
IS067	FLEX Monoclonal Mouse Anti-Myogenin, Clone F5D, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06730	58 104
IS069	FLEX Monoclonal Mouse Anti-Human CD1a, Clone 010, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS06930	56 77
IS072	FLEX Monoclonal Mouse Anti-Human Podoplanin Clone D2-40, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07230	58 107
IS074	FLEX Monoclonal Mouse Anti-Human Mammaglobin, Clone 304-1A5, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07430	58 100
IS075	FLEX Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker, Clone SPM314, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07530	58 109
IS076	FLEX Monoclonal Mouse Anti-Villin, Clone 1D2 C3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07630	58 113
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	57 95
IS079	FLEX Monoclonal Mouse Anti-Human MutL Protein Homolog 1, Clone ES05, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS07930	58 102
IS080	FLEX Monoclonal Mouse Anti-Human CDX2, Clone DAK-CDX2, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS08030	57 86
IS082	FLEX Monoclonal Mouse Anti-Human CD5, Clone 4C7, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS08230	56 78
IS083	FLEX Monoclonal Rabbit Anti-Human Cyclin D1, Clone EP12, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS08330	57 87
IS500	FLEX Polyclonal Rabbit Anti-Human Alpha-1-Fetoprotein, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50030	56 73
IS503	FLEX Polyclonal Rabbit Anti-Human CD3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50330	56 78
IS504	FLEX Polyclonal Rabbit Anti-S100, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50430	58 110
IS506	FLEX Polyclonal Rabbit Anti-Human Kappa Light Chains, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL△	IS50630	58 98

▲ Packaged in vials for use with Autostainer Link instruments
 △ Packaged in vials for use with Dako Autostainer instruments

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Code	Product	Package Size	Order No.	Page
IS507	FLEX Polyclonal Rabbit Anti-Human Lambda Light Chains, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS50730	58 98
IS508	FLEX Polyclonal Rabbit Anti-Human Chorionic Gonadotropin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS50830	57 86
IS509	FLEX Polyclonal Rabbit Anti-Human Thyroglobulin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS50930	58 111
IS510	FLEX Polyclonal Rabbit Anti-Human IgA, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS51030	57 96
IS511	FLEX Polyclonal Rabbit Anti-Human Myeloperoxidase, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS51130	58 103
IS512	FLEX Polyclonal Rabbit Anti-Human IgG, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS51230	57 96
IS513	FLEX Polyclonal Rabbit Anti-Human IgM, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS51330	57 97
IS514	FLEX Polyclonal Rabbit Anti-Human Prostate-Specific Antigen, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS51430	58 108
IS515	FLEX Polyclonal Rabbit Anti-Human Calcitonin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS51530	56 76
IS517	FLEX Polyclonal Rabbit Anti-Human IgD, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS51730	57 96
IS519	FLEX Polyclonal Rabbit Anti-Human Gastrin, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS51930	57 94
IS524	FLEX Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS52430	57 94
IS526	FLEX Polyclonal Rabbit Anti-Human Carcinoembryonic Antigen, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS52630	56 77
IS527	FLEX Polyclonal Rabbit Anti-Human Von Willebrand Factor, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS52730	58 114
IS600	FLEX Universal Negative Control, Rabbit, Ready-to-Use (Dako Autostainer/Autostainer Plus)	60 tests, 12 mL [△]	IS60061	59 121
IS602	FLEX Monoclonal Mouse Anti-Human CD30, Clone Ber-H2, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS60230	56 81
IS604	FLEX Monoclonal Mouse Anti-Human CD20cy, Clone L26, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS60430	56 80
IS606	FLEX Monoclonal Mouse Anti-Human Desmin, Clone D33, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS60630	57 90
IS607	FLEX Monoclonal Mouse Anti-Human Neurofilament Protein, Clone 2F11, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS60730	58 104
IS608	FLEX Monoclonal Mouse Anti-Human CD21, Clone 1F8, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS60830	56 80
IS609	FLEX Monoclonal Mouse Anti-Human CD68, Clone KP1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS60930	57 84
IS610	FLEX Monoclonal Mouse Anti-Human CD31, Endothelial Cell, Clone JC70A, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS61030	56 81
IS611	FLEX Monoclonal Mouse Anti-Human Smooth Muscle Actin, Clone 1A4, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS61130	56 73
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	58 104
IS613	FLEX Monoclonal Mouse Anti-Human CD68, Clone PG-M1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS61330	57 84
IS614	FLEX Monoclonal Mouse Anti-Human BCL2 Oncoprotein, Clone 124, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS61430	56 74
IS615	FLEX Monoclonal Mouse Anti-Human Cytokeratin 19, Clone RCK108, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS61530	57 89
IS616	FLEX Monoclonal Mouse Anti-Human p53 Protein, Clone DO-7, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS61630	58 106
IS618	FLEX Monoclonal Mouse Anti-Human Cytokeratin 18, Clone DC 10, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS61830	57 89
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	57 88
IS620	FLEX Monoclonal Mouse Anti-Cytokeratin 17, Clone E3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62030	57 89
IS621	FLEX Monoclonal Mouse Anti-Human CD79 α , Clone JCB117, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62130	57 84
IS622	FLEX Monoclonal Mouse Anti-Human Carcinoembryonic Antigen, Clone II-7, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62230	56 77
IS623	FLEX Monoclonal Mouse Anti-Human CD8, Clone C8/144B, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62330	56 79
IS624	FLEX Monoclonal Mouse Anti-Human Hepatocyte, Clone OCH1E5, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62430	57 95
IS625	FLEX Monoclonal Mouse Anti-Human BCL6 Protein, Clone PG-B6p, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62530	56 75
IS626	FLEX Monoclonal Mouse Anti-Human Ki-67 Antigen, Clone MIB-1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62630	58 98

[△] Packaged in vials for use with Dako Autostainer instruments

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Code	Product	Package Size	Order No.	Page
IS627	FLEX Monoclonal Mouse Anti-Human Calretinin, Clone DAK-Calret 1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62730	56 77
IS628	FLEX Monoclonal Mouse Anti-Human CD56, Clone 123C3, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62830	57 83
IS629	FLEX Monoclonal Mouse Anti-Human Epithelial Membrane Antigen, Clone E29, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS62930	57 92
IS630	FLEX Monoclonal Mouse Anti-Vimentin, Clone V9, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS63030	58 113
IS632	FLEX Monoclonal Mouse Anti-Human CD34 Class II, Clone QBEnd 10, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS63230	56 82
IS633	FLEX Monoclonal Mouse Anti-Human Melan-A, Clone A103, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS63330	58 100
IS636	FLEX Monoclonal Mouse Anti-Human CD43, Clone DF-T1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS63630	57 82
IS637	FLEX Monoclonal Mouse Anti-Human Epithelial Antigen, Clone Ber-EP4, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS63730	57 91
IS640	FLEX Monoclonal Mouse Anti-Human Mast Cell Tryptase, Clone AA1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS64030	58 100
IS641	FLEX Monoclonal Mouse Anti-Human CD246, ALK Protein, Clone ALK1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS64130	57 86
IS642	FLEX Monoclonal Mouse Anti-Human CD138, Clone MI15, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS64230	57 85
IS643	FLEX Monoclonal Mouse Anti-Human CD7, Clone CBC.37, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS64330	56 79
IS644	FLEX Monoclonal Mouse Anti-Human MUM1 Protein, Clone MUM1p, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS64430	58 102
IS647	FLEX Monoclonal Mouse Anti-Human CD57, Clone TB01, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS64730	57 83
IS648	FLEX Monoclonal Mouse Anti-Human CD10, Clone 56C6, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS64830	56 79
IS649	FLEX Monoclonal Mouse Anti-Human CD4, Clone 4B12, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS64930	56 78
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	56 74
IS651	FLEX Monoclonal Mouse Anti-Human CD2, Clone AB75, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS65130	56 78
IS656	FLEX Monoclonal Mouse Anti-Human CD19, Clone LE-CD19, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS65630	56 80
IS700	FLEX Monoclonal Mouse Anti-Human Muscle Actin, Clone HHF35, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS70030	56 73
IS701	FLEX Monoclonal Mouse Anti-Human CA 125, Clone M11, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS70130	56 76
IS702	FLEX Monoclonal Mouse Anti-Human Beta-Catenin, Clone β-Catenin-1, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS70230	56 75
IS750	FLEX Universal Negative Control, Mouse, Ready-to-Use (Dako Autostainer/Autostainer Plus)	60 tests, 12 mL [△]	IS75061	59 121
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	57 82
IS777	FLEX Monoclonal Mouse Anti-Human Cytokeratin 20, Clone K _{20.8} , Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS77730	57 89
IS779	FLEX Monoclonal Mouse Anti-Human Placental Alkaline Phosphatase, Clone 8A9, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS77930	58 107
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	57 88
IS781	FLEX Monoclonal Mouse Anti-Human CD23, Clone DAK-CD23, Ready-to-Use (Dako Autostainer/Autostainer Plus)	30 tests, 6 mL [△]	IS78130	56 81
K				
K0598	BCIP/NBT Substrate System	150 tests	K059811	133
K0601	In Situ Hybridization Detection System (AP), for Biotinylated Probes	50 tests	K060111	177
K0609	Universal LSAB2 Kit/HRP, Rabbit/Mouse	150 tests	K060911	132
K0620	GenPoint™, Catalyzed Signal Amplification System, for In Situ Hybridization	65 tests	K062011	176
K0625	Fuchsin+ Substrate-Chromogen	300 tests, 30 mL 1100 tests, 110 mL	K062511 K062530	133
K0626	Chemiluminescent System for Nucleic Acid Blotting (20 Blots x 150 cm ²)	20 blots	K062611	178
K0640	Dako Liquid Permanent Red	300 tests, 30 mL 1100 tests, 110 mL	K064011 K064030	133
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	61 132

[△] Packaged in vials for use with Dako Autostainer instruments

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Code	Product	Package Size	Order No.	Page
K0695	Permanent Red Substrate System	10 tablets, 30 mL	K069511	133
K0698	New Fuchsin Substrate System	1750 tests	K069811	133
K1492	EGFR pharmDx Kit for Manual Use	35 tests	K149211	144
K1494	EGFR pharmDx Kit for the Dako Autostainer	50 tests	K149489	55 144
K1497	CSA II System, Biotin Free	150 tests, 15 mL	K149711	132
K1500	Catalyzed Signal Amplification (CSA) System	150 tests	K150011	132
K1501	CSA II Rabbit Link	150 tests, 15 mL	K150180	132
K1906	c-Kit pharmDx for Manual Use	25 tests	K190611	143
K1907	c-Kit pharmDx for the Dako Autostainer	35 tests	K190787	55 143
K3461	AEC+ Substrate-Chromogen, Ready-to-Use	150 tests, 15 mL	K346111	54 133
K3464	AEC Substrate-Chromogen, Ready-to-Use	1100 tests, 110 mL	K346430	133
K3467	Liquid DAB+	150 tests, 15 mL	K346711	133
K3468	Liquid DAB+	1100 tests, 110 mL 1100 tests, 10 x 11 mL [△]	K346811 K346889	54 133
K3469	AEC+ Substrate-Chromogen, Ready-to-Use	1100 tests, 110 mL	K346911	54 133
K3954	ARK (Animal Research Kit)/HRP	150 tests	K395411	132
K4000	EnVision+/HRP, Mouse	150 tests, 15 mL	K400011	131
K4001	EnVision+/HRP, Mouse	1100 tests, 110 mL	K400111	131
K4002	EnVision+/HRP, Rabbit	150 tests, 15 mL	K400211	131
K4003	EnVision+/HRP, Rabbit	1100 tests, 110 mL	K400311	131
K4004	EnVision+ System/HRP, Mouse (AEC+)	150 tests	K400411	131
K4005	EnVision+ System/HRP, Mouse (AEC+)	1100 tests	K400511	61 131
K4006	EnVision+ System/HRP, Mouse (DAB+)	150 tests	K400611	131
K4007	EnVision+ System/HRP, Mouse (DAB+)	1100 tests	K400711	61 131
K4008	EnVision+ System/HRP, Rabbit (AEC+)	150 tests	K400811	131
K4009	EnVision+ System/HRP, Rabbit (AEC+)	1100 tests	K400911	61 131
K4010	EnVision+ System/HRP, Rabbit (DAB+)	150 tests	K401011	131
K4011	EnVision+ System/HRP, Rabbit (DAB+)	1100 tests	K401111	61 131
K4061	EnVision+/HRP, Dual Link, Rabbit/Mouse	1100 tests, 10 x 11 mL [△]	K406189	61 131
K4063	EnVision+/HRP, Dual Link Rabbit/Mouse	150 tests, 15 mL	K406311	131
K4065	EnVision+ Detection System Peroxidase/DAB, Rabbit/Mouse	150 tests	K406511	61 131
K4068	ADVANCE™/HRP, Rabbit/Mouse	550 tests, 110 mL	K406889	61 132
K4069	ADVANCE™/HRP, Rabbit/Mouse	55 tests, 11 mL	K406987	61 132
K4071	ER/PR pharmDx Kit for the Dako Autostainer	50 tests	K407111	55 146
K5201	PNA ISH Detection Kit	40 tests	K520111	177
K5204	HercepTest	35 tests	K520421	148
K5207	HercepTest for the Dako Autostainer	50 tests	K520721	55 148
K5325	Telomere PNA FISH Kit/FITC	20 tests	K532511	171
K5326	Telomere PNA FISH Kit/Cy3	20 tests	K532611	171
K5355	EnVision G 2 System/AP, Rabbit/Mouse (Permanent Red)	50 tests 500 tests	K535511 K535521	61 131
K5361	EnVision G 2 Doublestain System, Rabbit/Mouse (DAB+/Permanent Red)	150 tests	K536111	61 131
K5499	Cytology FISH Accessory Kit	20 tests	K549911	180
K5731	HER2 IQFISH pharmDx	20 tests	K573111	153 169
K5799	Histology FISH Accessory Kit	20 tests	K579911	180
K8000	EnVision FLEX, High pH (Link)	400-600 tests	K800021	52 127
K8002	EnVision FLEX+, High pH (Link)	400-600 tests	K800221	52 127
K8004	EnVision FLEX Target Retrieval Solution, High pH (50x)	3 x 30 mL	K800421	53 60 129
K8005	EnVision FLEX Target Retrieval Solution, Low pH (50x)	3 x 30 mL	K800521	53 60 129
K8006	EnVision FLEX Antibody Diluent	120 mL	K800621	53 60 129
K8007	EnVision FLEX Wash Buffer (20x)	1 L	K800721	53 60 129
K8008	EnVision FLEX Hematoxylin (Link)	3 x 45 mL, 400-600 tests	K800821	53 129

△ Packaged in vials for use with Dako Autostainer instruments

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K8009	EnVision FLEX+ Rabbit (LINKER) (Link)	40 mL, 130-200 tests	K800921	53 129
K8010	EnVision FLEX, High pH (Dako Autostainer/Autostainer Plus)	400-600 tests	K801021	59 127
K8012	EnVision FLEX+, High pH (Dako Autostainer/Autostainer Plus)	400-600 tests	K801221	59 127
K8018	EnVision FLEX Hematoxylin (Dako Autostainer/Autostainer Plus)	10 x 13 mL, 400-600 tests	K801821	60 129
K8019	EnVision FLEX+ Rabbit (LINKER) (Dako Autostainer/Autostainer Plus)	3 x 13 mL, 120-190 tests	K801921	60 129
K8020	FLEX IHC Microscope Slides	5 x 100 slides	K802021	23 36 54 129 135
K8021	EnVision FLEX+ Mouse (LINKER) (Link)	40 mL, 130-200 tests	K802121	53 129
K8022	EnVision FLEX+ Mouse (LINKER) (Dako Autostainer/Autostainer Plus)	3 x 13 mL, 120-190 tests	K802221	60 129
K8023	EnVision FLEX Mini Kit, High pH (Link)	125-190 tests	K802321	52 127
K8024	EnVision FLEX Mini Kit, High pH (Dako Autostainer/Autostainer Plus)	125-190 tests	K802421	59 127
M				
M0613	Monoclonal Mouse Anti-Human Epithelial Membrane Antigen, Clone E29	0.2 mL 1 mL	M061329 M061301	92 92
M0616	Monoclonal Mouse Anti-Human Von Willebrand Factor, Clone F8/86	1 mL	M061601	114
M0617	Monoclonal Mouse Anti-Thrombomodulin, Clone 1009	1 mL	M061701	111
M0630	Monoclonal Mouse Anti-Human Cytokeratin, High Molecular Weight, Clone 34 β E12	0.2 mL 1 mL	M063029 M063001	90
M0633	Monoclonal Mouse Anti-Rabbit Macrophage, Clone RAM11	1 mL	M063301	100
M0634	Monoclonal Mouse Anti-Human Melanosome, Clone HMB-45	0.2 mL 1 mL	M063429 M063401	101
M0635	Monoclonal Mouse Anti-Human Muscle Actin, Clone HHF35	1 mL	M063501	73
M0638	Monoclonal Mouse Anti-Human Laminin, Clone 4C7	1 mL	M063801	99
M0639	Monoclonal Mouse Anti-Metallothionein, Clone E9	1 mL	M063901	101
M0701	Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen, Clones 2B11 + PD7/26	0.2 mL 1 mL	M070129 M070101	82
M0718	Monoclonal Mouse Anti-Human CD68, Clone EBM11	1 mL	M071801	84
M0725	Monoclonal Mouse Anti-Vimentin, Clone V9	0.2 mL 1 mL	M072529 M072501	113
M0736	Monoclonal Mouse Anti-Human HLA-ABC Antigen, Clone W6/32	1 mL	M073601	95
M0737	Monoclonal Mouse Anti-Rabbit Immunoglobulins, Clone MR12/53	1 mL	M073701	120
M0742	Monoclonal Mouse Anti-Human CD45R0, Clone UCHL1	1 mL	M074201	83
M0744	Monoclonal Mouse Anti-Bromodeoxyuridine, Clone Bu20a	1 mL	M074401	75
M0746	Monoclonal Mouse Anti-Human HLA-DR Antigen, Alpha-Chain, Clone TAL.1B5	1 mL	M074601	96
M0747	Monoclonal Mouse Anti-Human Myeloid/Histiocyte Antigen, Clone MAC 387	1 mL	M074701	103
M0750	Monoclonal Mouse Anti-Human Prostate-Specific Antigen, Clone ER-PR8	0.2 mL	M075029	108
M0751	Monoclonal Mouse Anti-Human CD30, Clone Ber-H2	0.2 mL 1 mL	M075129 M075101	81
M0752	Monoclonal Mouse Anti-Human Neutrophil Elastase, Clone NP57	1 mL	M075201	105
M0753	Monoclonal Mouse Anti-Human CD61, Platelet Glycoprotein IIIa, Clone Y2/51	1 mL	M075301	83
M0754	Monoclonal Mouse Anti-Human CD45RA, Clone 4KB5	1 mL	M075401	83
M0755	Monoclonal Mouse Anti-Human CD20cy, Clone L26	0.2 mL 1 mL	M075529 M075501	80
M0758	Monoclonal Mouse Anti-Human Serotonin, Clone 5HT-H209	1 mL	M075801	110
M0760	Monoclonal Mouse Anti-Human Desmin, Clone D33	0.2 mL 1 mL	M076029 M076001	90
M0761	Monoclonal Mouse Anti-Human Glial Fibrillary Acidic Protein, Clone 6F2	1 mL	M076101	94
M0762	Monoclonal Mouse Anti-Human Neurofilament Protein, Clone 2F11	0.2 mL	M076229	104
M0775	Monoclonal Mouse Anti-Human HLA-DP, DQ, DR Antigen, Clone CR3/43	1 mL	M077501	96
M0781	Monoclonal Mouse Anti-Human Thyroglobulin, Clone DAK-Tg6	1 mL	M078101	111
M0784	Monoclonal Mouse Anti-Human CD21, Clone 1F8	1 mL	M078401	80
M0785	Monoclonal Mouse Anti-Human Collagen IV, Clone CIV 22	1 mL	M078501	87
M0786	Monoclonal Mouse Anti-Human CD43, Clone DF-T1	1 mL	M078601	82
M0792	Monoclonal Mouse Anti-Human Prostatic Acid Phosphatase, Clone PASE/4LJ	1 mL	M079201	109
M0804	Monoclonal Mouse Anti-Human Epithelial Antigen, Clone Ber-EP4	0.2 mL 1 mL	M080429 M080401	91

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M0814	Monoclonal Mouse Anti-Human CD68, Clone KP1	1 mL	M081401	84
M0819	Monoclonal Mouse Anti-Human CD235a, Glycophorin A, Clone JC159	1 mL	M081901	85
M0820	Monoclonal Mouse Anti-Human Glycophorin C, Clone Ret40f	1 mL	M082001	94
M0821	Monoclonal Mouse Anti-Human Cytokeratin, Clone MNF116	1 mL	M082101	87
M0823	Monoclonal Mouse Anti-Human CD31, Endothelial Cell, Clone JC70A	0.2 mL 1 mL	M082329 M082301	81
M0825	Monoclonal Mouse Anti-Human CD14, Clone TÜK4	1 mL	M082501	79
M0846	Monoclonal Mouse Anti-Human CD35, Clone Ber-MAC-DRC	1 mL	M084601	82
M0851	Monoclonal Mouse Anti-Human Smooth Muscle Actin, Clone 1A4	0.2 mL 1 mL	M085129 M085101	73
M0854	Monoclonal Mouse Anti-Cytomegalovirus, Clones CCH2 + DDG9	1 mL	M085401	90
M0857	Monoclonal Mouse Anti-Human Immunodeficiency Virus, p24, Clone Kal-1	1 mL	M085701	96
M0869	Monoclonal Mouse Anti-Human Chromogranin A, Clone DAK-A3	0.2 mL 1 mL	M086929 M086901	86
M0872	Monoclonal Mouse Anti-Human Beta-Amyloid, Clone 6F/3D	1 mL	M087201	75
M0873	Monoclonal Mouse Anti-Human Neuron-Specific Enolase, Clone BBS/NC/VI-H14	0.2 mL 1 mL	M087329 M087301	104
M0874	Monoclonal Mouse Anti-Sarcomeric Actin, Clone Alpha-Sr-1	1 mL	M087401	73
M0876	Monoclonal Mouse Anti-Human CD68, Clone PG-M1	0.2 mL 1 mL	M087629 M087601	84
M0879	Monoclonal Mouse Anti-Proliferating Cell Nuclear Antigen, Clone PC10	1 mL	M087901	108
M0880	Monoclonal Mouse Anti-Human Leukaemia, Hairy Cell, Clone DBA.44	1 mL	M088001	99
M0887	Monoclonal Mouse Anti-Human BCL2 Oncoprotein, Clone 124	0.2 mL 1 mL	M088729 M088701	74
M0888	Monoclonal Mouse Anti-Human Cytokeratin 19, Clone RCK108	1 mL	M088801	89
M0897	Monoclonal Mouse Anti-Epstein-Barr Virus, LMP, Clones CS.1-4	1 mL	M089701	92
M3501	Monoclonal Mouse Anti-Adrenocorticotropin (ACTH), Clone 02A3	1 mL	M350101	73
M3502	Monoclonal Mouse Anti-Human Luteinizing Hormone (LH), Clone C93	1 mL	M350201	99
M3503	Monoclonal Mouse Anti-Human Thyroid-Stimulating Hormone (TSH), Clone 0042	1 mL	M350301	112
M3504	Monoclonal Mouse Anti-Human Follicle-Stimulating Hormone (FSH), Clone C10	1 mL	M350401	93
M3505	Monoclonal Mouse Anti-Human Mesothelial Cell, Clone HBME-1	1 mL	M350501	101
M3512	Monoclonal Mouse Anti-Human MyoD1, Clone 5.8A	1 mL	M351201	103
M3515	Monoclonal Mouse Anti-Human Cytokeratin, Clone AE1/AE3	0.2 mL 1 mL	M351529 M351501	87
M3517	Monoclonal Mouse Anti-Human CA 19-9, Clone 1116-NS-19-9	1 mL	M351701	76
M3520	Monoclonal Mouse Anti-Human CA 125, Clone M11	1 mL	M352001	76
M3525	Monoclonal Mouse Anti-Human Epithelial-Related Antigen, Clone MOC-31	1 mL	M352501	92
M3527	Monoclonal Mouse Anti-Human CD105, Endoglin, Clone SN6h	1 mL	M352701	85
M3528	Monoclonal Mouse Anti-Human Papillomavirus (HPV), Clone K1H8	1 mL	M352801	106
M3539	Monoclonal Mouse Anti-Human Beta-Catenin, Clone β -Catenin-1	1 mL	M353901	75
M3556	Monoclonal Mouse Anti-Human Calponin, Clone CALP	1 mL	M355601	77
M3557	Monoclonal Mouse Anti-Human Caldesmon, Clone h-CD	1 mL	M355701	76
M3558	Monoclonal Mouse Anti-Human Smooth Muscle Myosin Heavy Chain, Clone SMMS-1	1 mL	M355801	104
M3559	Monoclonal Mouse Anti-Myogenin, Clone F5D	1 mL	M355901	104
M3561	Monoclonal Mouse Anti-Human Wilms' Tumor 1 (WT1) Protein, Clone 6F-H2	1 mL	M356101	114
M3562	Monoclonal Mouse Anti-Human Androgen Receptor, Clone AR441	1 mL	M356201	74
M3563	Monoclonal Mouse Anti-Human Epidermal Growth Factor Receptor, Clone H11	1 mL	M356301	91
M3567	Monoclonal Mouse Anti-Human Fascin, Clone 55K-2	1 mL	M356701	93
M3568	Monoclonal Mouse Anti-Human Progesterone Receptor, Clone PgR 1294	1 mL	M356801	108
M3569	Monoclonal Mouse Anti-Human Progesterone Receptor, Clone PgR 636	0.2 mL 1 mL	M356929 M356901	108
M3571	Monoclonal Mouse Anti-Human CD1a, Clone 010	1 mL	M357101	77
M3575	Monoclonal Mouse Anti-Thyroid Transcription Factor, Clone 8G7G3/1	0.2 mL 1 mL	M357529 M357501	112
M3601	Monoclonal Mouse Anti-Human CD99, MIC2 Gene Products, Ewing's Sarcoma Marker, Clone 12E7	1 mL	M360101	84
M3609	Monoclonal Mouse Anti-Human Inhibin α , Clone R1	1 mL	M360901	97

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M3612	Monoclonal Mouse Anti-Human E-Cadherin, Clone NCH-38	0.2 mL 1 mL	M361229 M361201	90
M3613	Monoclonal Mouse Anti-Human N-Cadherin, Clone 6G11	1 mL	M361301	104
M3614	Monoclonal Mouse Anti-Human Thymidylate Synthase, Clone TS106	1 mL	M361401	111
M3615	Monoclonal Mouse Anti-Human Prostein, Clone 10E3	0.2 mL 1 mL	M361529 M361501	109
M3616	Monoclonal Rabbit Anti-Human AMACR, Clone 13H4	0.2 mL 1 mL	M361629 M361601	74
M3617	Monoclonal Mouse Anti-Human COX-2, Clone CX-294	1 mL	M361701	87
M3619	Monoclonal Mouse Anti-Human Podoplanin, Clone D2-40	0.2 mL 1 mL	M361929 M361901	107
M3620	Monoclonal Mouse Anti-Human Prostate-Specific Membrane Antigen, Clone 3E6	0.2 mL 1 mL	M362029 M362001	109
M3621	Monoclonal Mouse Anti-Human MITF, Clone D5	0.2 mL	M362129	101
M3623	Monoclonal Mouse Anti-Human Tyrosinase, Clone T311	0.2 mL	M362329	112
M3624	Monoclonal Mouse Anti-Human Survivin, Clone 12C4	0.2 mL	M362429	110
M3625	Monoclonal Mouse Anti-Human Mammaglobin, Clone 304-1A5	0.2 mL	M362529	100
M3626	Monoclonal Mouse Anti-Human IMP3, Clone 69.1	0.2 mL	M362629	97
M3627	Monoclonal Mouse Anti-Human PTEN, Clone 6H2.1	0.2 mL	M362729	109
M3628	Monoclonal Rabbit Anti-Human Akt-pS473, Phosphorylation Site Specific, Clone 14-5	1 mL	M362801	73
M3629	Monoclonal Rabbit Anti-Human p53 Protein, Clone 318-6-11	0.2 mL 1 mL	M362929 M362901	106
M3631	Monoclonal Mouse Anti-Human CD15, Clone Carb-3	0.2 mL 1 mL	M363129 M363101	80
M3632	Monoclonal Mouse Anti-Human Renal Cell Carcinoma Marker, Clone SPM314	1 mL	M363201	109
M3636	Monoclonal Mouse Anti-Human CDX2, Clone DAK-CDX2	0.2 mL 1 mL	M363629 M363601	86
M3637	Monoclonal Mouse Anti-Villin, Clone 1D2 C3	1 mL	M363701	113
M3638	Monoclonal Mouse Anti-Human Gross Cystic Disease Fluid Protein-15, Clone 23A3	1 mL	M363801	95
M3639	Monoclonal Mouse Anti-Human MutS Protein Homolog 2, Clone FE11	0.2 mL 1 mL	M363929 M363901	102
M3640	Monoclonal Mouse Anti-Human MutL Protein Homolog 1, Clone ES05	0.2 mL 1 mL	M364029 M364001	102
M3641	Monoclonal Mouse Anti-Human CD5, Clone 4C7	1 mL	M364101	78
M3642	Monoclonal Rabbit Anti-Human Cyclin D1, Clone EP12	1 mL	M364201	87
M3646	Monoclonal Rabbit Anti-Human MutS Protein Homolog 6, Clone EP49	0.2 mL 1 mL	M364629 M364601	103
M3647	Monoclonal Rabbit Anti-Human Postmeiotic Segregation Increased 2, Clone EP51	0.2 mL 1 mL	M364729 M364701	107
M3648	Monoclonal Mouse Anti-Human ERCC1, Clone 4F9	0.2 mL 1 mL	M364829 M364801	92
M3649	Monoclonal Mouse Anti-Human Octamer-Binding Transcription Factor 3/4, Clone N1NK	0.2 mL 1 mL	M364929 M364901	105
M3651	Monoclonal Rabbit Anti-Human Terminal Deoxynucleotidyl Transferase (TdT), Clone EP266	1 mL	M365101	111
M3652	Monoclonal Rabbit Anti-Human Cytokeratin 8/18, Clone EP17/EP30	1 mL	M365201	88
M7001	Monoclonal Mouse Anti-Human p53 Protein, Clone DO-7	0.2 mL 1 mL	M700129 M700101	106
M7002	Monoclonal Mouse Anti-Human Cytokeratin 10, Clone DE-K10	1 mL	M700201	88
M7003	Monoclonal Mouse Anti-Human Cytokeratin 10/13, Clone DE-K13	1 mL	M700301	88
M7010	Monoclonal Mouse Anti-Human Cytokeratin 18, Clone DC 10	0.2 mL	M701029	89
M7018	Monoclonal Mouse Anti-Human Cytokeratin 7, Clone OV-TL 12/30	0.2 mL 1 mL	M701829 M701801	88
M7019	Monoclonal Mouse Anti-Human Cytokeratin 20, Clone K ₂₀ .8	0.2 mL 1 mL	M701929 M701901	89
M7020	Monoclonal Mouse Anti-Vimentin, Clone Vim 3B4	1 mL	M702001	114
M7046	Monoclonal Mouse Anti-Cytokeratin 17, Clone E3	1 mL	M704601	89
M7050	Monoclonal Mouse Anti-Human CD79 α , Clone JCB117	0.2 mL 1 mL	M705029 M705001	84
M7052	Monoclonal Mouse Anti-Human Mast Cell Tryptase, Clone AA1	0.2 mL	M705229	100
M7064	Monoclonal Mouse Anti-Enterovirus, Clone 5-D8/1	1 mL	M706401	91
M7072	Monoclonal Mouse Anti-Human Carcinoembryonic Antigen, Clone II-7	0.2 mL 1 mL	M707229 M707201	77

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M7077	Monoclonal Mouse Anti-Human Plasma Cell, Clone VS38c	1 mL	M707701	107
M7082	Monoclonal Mouse Anti-Human CD44, Phagocytic Glycoprotein-1, Clone DF1485	1 mL	M708201	82
M7103	Monoclonal Mouse Anti-Human CD8, Clone C8/144B	1 mL	M710301	79
M7157	Monoclonal Mouse Anti-Human Follicular Dendritic Cell, Clone CNA.42	1 mL	M715701	94
M7158	Monoclonal Mouse Anti-Human Hepatocyte, Clone OCH1E5	1 mL	M715801	95
M7165	Monoclonal Mouse Anti-Human CD34 Class II, Clone QBEnd 10	0.2 mL 1 mL	M716529 M716501	82
M7186	Monoclonal Mouse Anti-Human Topoisomerase II α , Clone Ki-S1	1 mL	M718601	112
M7191	Monoclonal Mouse Anti-Human Placental Alkaline Phosphatase, Clone 8A9	0.2 mL 1 mL	M719129 M719101	107
M7195	Monoclonal Mouse Anti-Human CD246, ALK Protein, Clone ALK1	0.2 mL 1 mL	M719529 M719501	86
M7196	Monoclonal Mouse Anti-Human Melan-A, Clone A103	0.2 mL 1 mL	M719629 M719601	100
M7202	Monoclonal Mouse Anti-Human p21 ^{WAF1/Cip1} , Clone SX118	0.2 mL	M720229	106
M7203	Monoclonal Mouse Anti-Human p27 ^{Kip1} , Clone SX53G8	1 mL	M720301	106
M7211	Monoclonal Mouse Anti-Human BCL6 Protein, Clone PG-B6p	0.2 mL 1 mL	M721129 M721101	75
M7228	Monoclonal Mouse Anti-Human CD138, Clone MI15	1 mL	M722801	85
M7235	Monoclonal Mouse Anti-Human Granzyme B, Clone GrB-7	1 mL	M723501	94
M7237	Monoclonal Mouse Anti-Human Cytokeratin 5/6, Clone D5/16 B4	0.2 mL 1 mL	M723729 M723701	88
M7240	Monoclonal Mouse Anti-Human Ki-67 Antigen, Clone MIB-1	0.2 mL 1 mL	M724029 M724001	98
M7245	Monoclonal Mouse Anti-Human Calretinin, Clone DAK-Calret 1	0.2 mL 1 mL	M724529 M724501	77
M7248	Monoclonal Mouse Anti-Rat Ki-67 Antigen, Clone MIB-5	1 mL	M724801	98
M7254	Monoclonal Mouse Anti-Human CD3, Clone F7.2.38	0.2 mL 1 mL	M725429 M725401	78
M7255	Monoclonal Mouse Anti-Human CD7, Clone CBC.37	1 mL	M725501	79
M7257	Monoclonal Mouse Anti-Human Thyroid Peroxidase, Clone MoAb47	0.2 mL	M725729	112
M7259	Monoclonal Mouse Anti-Human MUM1 Protein, Clone MUM1p	0.2 mL 1 mL	M725929 M725901	102
M7260	Monoclonal Mouse Anti-Human BCL10 Protein, Clone 151	0.2 mL	M726029	75
M7262	Monoclonal Mouse Anti-Human Laminin-5, Gamma-2 Chain, Clone 4G1	1 mL	M726201	99
M7263	Monoclonal Mouse Anti-Human MCM3 Protein, Clone 101	0.2 mL	M726329	100
M7271	Monoclonal Mouse Anti-Human CD57, Clone TB01	0.2 mL	M727129	83
M7273	Monoclonal Mouse Anti-Human Vascular Endothelial Growth Factor, Clone VG1	0.2 mL	M727329	113
M7279	Monoclonal Mouse Anti-Human LAT Protein, Clone LAT-1	0.2 mL	M727929	99
M7292	Monoclonal Mouse Anti-Human Estrogen Receptor β 1, Clone PPG5/10	1 mL	M729201	93
M7293	Monoclonal Mouse Anti-Human Tissue Inhibitor of Metalloproteinases 1, Clone VT7	0.2 mL	M729329	112
M7294	Monoclonal Mouse Anti-Human uPAR, Clone R4	0.2 mL	M729429	113
M7296	Monoclonal Mouse Anti-Human CD19, Clone LE-CD19	0.2 mL	M729629	80
M7297	Monoclonal Mouse Anti-Human HER3, Clone DAK-H3-IC	0.2 mL	M729729	95
M7298	Monoclonal Mouse Anti-Human Wild-Type EGFR, Clone DAK-H1-WT	0.2 mL	M729829	91
M7299	Monoclonal Mouse Anti-Human EGFR-pY1197, Phosphorylation Site Specific, Clone DAK-H1-1197	0.2 mL	M729929	91
M7300	Monoclonal Mouse Anti-Human Ribosomal Protein S6-pS240, Phosphorylation Site Specific, Clone DAK-S6-240	0.2 mL	M730029	110
M7303	Monoclonal Mouse Anti-Human ZAP-70, Clone 2F3.2	1 mL	M730301	114
M7304	Monoclonal Mouse Anti-Human CD56, Clone 123C3	0.2 mL 1 mL	M730429 M730401	83
M7305	Monoclonal Mouse Anti-Human Nucleophosmin, Clone 376	1 mL	M730501	105
M7307	Monoclonal Mouse Anti-Human B-Cell-Specific Activator Protein, Clone DAK-Pax5	1 mL	M730701	74
M7308	Monoclonal Mouse Anti-Human CD10, Clone 56C6	0.2 mL 1 mL	M730829 M730801	79
M7309	Monoclonal Mouse Anti-Human CD2, Clone AB75	1 mL	M730901	78
M7310	Monoclonal Mouse Anti-Human CD4, Clone 4B12	0.2 mL 1 mL	M731029 M731001	78
M7312	Monoclonal Mouse Anti-Human CD23, Clone DAK-CD23	1 mL	M731201	81

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Code	Product	Package Size	Order No.	Page
M7313	Monoclonal Mouse Anti-Human MUC2, Clone CCP58	0.2 mL 1 mL	M731329 M731301	101
M7314	Monoclonal Rabbit Anti-Human ERG, Clone EP111	0.2 mL 1 mL	M731429 M731401	92
M7315	Monoclonal Mouse Anti-Human Synaptophysin, Clone DAK-SYNAP	0.2 mL 1 mL	M731529 M731501	110
M7316	Monoclonal Mouse Anti-Human MUC5AC, Clone CLH2	0.2 mL 1 mL	M731629 M731601	102
P				
P0141	Polyclonal Rabbit Anti-Guinea Pig Immunoglobulins/HRP	2 mL	P014102	119
P0160	Polyclonal Rabbit Anti-Goat Immunoglobulins/HRP	2 mL	P016002	119
P0161	Polyclonal Rabbit Anti-Mouse Immunoglobulins/HRP	2 mL	P016102	119
P0163	Polyclonal Rabbit Anti-Sheep Immunoglobulins/HRP	2 mL	P016302	120
P0212	Polyclonal Rabbit Anti-Human IgA, IgG, IgM, Kappa, Lambda/HRP	2 mL	P021202	96 117
P0214	Polyclonal Rabbit Anti-Human IgG/HRP	2 mL	P021402	96 117
P0215	Polyclonal Rabbit Anti-Human IgM/HRP	2 mL	P021502	97 117
P0217	Polyclonal Swine Anti-Rabbit Immunoglobulins/HRP	2 mL	P021702	120
P0260	Polyclonal Rabbit Anti-Mouse Immunoglobulins/HRP	2 mL	P026002	119
P0397	Streptavidin/HRP	1 mL	P039701	132
P0399	Polyclonal Swine Anti-Rabbit Immunoglobulins/HRP	1 mL	P039901	120
P0447	Polyclonal Goat Anti-Mouse Immunoglobulins/HRP	1 mL	P044701	119
P0448	Polyclonal Goat Anti-Rabbit Immunoglobulins/HRP	1 mL	P044801	119
P0449	Polyclonal Rabbit Anti-Goat Immunoglobulins/HRP	1 mL	P044901	119
P0450	Polyclonal Rabbit Anti-Rat Immunoglobulins/HRP	1 mL	P045001	120
P5100	Polyclonal Rabbit Anti-FITC/HRP, Rabbit F(Ab')	0.5 mL	P510050	171
PT102	PT Link Tank	1 unit	PT10230	37
PT103	PT Link Tank Cover	1 unit	PT10330	37
PT109	PT Link Rinse Station	1 container and lid	PT10930	37
PT200	PT Link	1 unit	PT20027	37
PT202	PT Link Tank	1 unit	PT20230	37
PT203	PT Link Tank Cover	1 unit	PT20330	37
S				
S0809	Antibody Diluent	50 mL 125 mL	S080981 S080983	133
S1699	Target Retrieval Solution, Concentrated x 10	500 mL	S169984	134
S1700	Target Retrieval Solution	500 mL	S170084	134
S1801	Hybridization Solution, Nucleic Acid Blotting	250 mL	S180130	178
S1803	Stringent Wash (2x SSC), Nucleic Acid Blotting	Pkg of 5	S180330	178
S1961	DAB Enhancer	30 mL 110 mL	S196130 S196131	133
S1962	Methyl Green, Counterstain	500 mL	S196230	134
S1964	Ultramount, Aqueous Permanent Mounting Medium, Ready-to-Use	15 mL	S196430	135
S1966	Tween 20	100 mL	S196630	134
S1967	DAB Away®	50 tests	S196730	54
S1968	Tris-Buffered Saline (TBS), pH 7.6	2 x 5 L	S196830	134
S2002	Dako Pen	1 unit	S200230	135
S2003	Dual Endogenous Enzyme Block	15 mL 10 x 11 mL [△]	S200380 S200389	54 134
S2367	Dako Target Retrieval Solution, pH 9 (x 10)	500 mL	S236784	134
S2368	Dako Target Retrieval Solution, pH 9, Ready-to-Use	500 mL	S236884	134
S2369	Dako Target Retrieval Solution, Citrate pH 6 (x 10)	500 mL	S236984	134
S2375	Dako Target Retrieval Solution, pH 9 (10x), (3-in-1)	500 mL	S237584	134
S2450	Hybridizer (110-120 V)	1 unit	S245030	166
S2451	Hybridizer (200-240 V)	1 unit	S245130	166

[△] Packaged in vials for use with Dako Autostainer instruments

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
S2452	Hybridizer Humidity Control Strips	20 strips	S245230	166
S2700	Label Printer (Dako Autostainer Plus)	1 unit	S270030	136
S2801	Pascal Quality Strips	100 strips	S280130	135
S3001	Tris-Buffered Saline (TBS)	6 x 1 L	S300130	134
S3002	Pepsin	6 x 2 g	S300230	135
S3003	Silanized Slides	100 slides	S300330	135
S3004	Proteinase K (Concentrate)	2 mL	S300402	135
S3006	Dako Wash Buffer 10x	1 L	S300685	54 134
S3007	Proteolytic Enzyme, Ready-to-Use	10 x 11 mL [△]	S300789	54 135
S3020	Proteinase K, Ready-to-Use	150 tests, 15 mL 1100 tests, 110 mL 1100 tests, 10 x 11 mL [△]	S302080 S302030 S302089	54 135
S3022	Antibody Diluent with Background-Reducing Components	50 mL 125 mL	S302281 S302283	133
S3023	Fluorescence Mounting Medium	15 mL	S302380	135
S3024	Phosphate-Buffered Saline (PBS), pH 7.0	6 x 1 L	S302430	134
S3025	Faramount, Aqueous Mounting Medium, Ready-to-Use	15 mL	S302580	135
S3301	Hematoxylin, for the Dako Autostainer	500 mL	S330130	54 145 147 149
S3302	Hematoxylin	500 mL	S330230	134
S3306	Tris-Buffered NaCl Solution with Tween 20 (TBST), pH 7.6, Concentrated x 10	500 mL	S330630	134
S3309	Hematoxylin, Mayer's	500 mL	S330930	134
S3380	Slide Labels, Square Flap	500 labels	S338030	137
S3386	Slide Labels, Large Flap	500 labels	S338630	137
S3393	Slide Labels, Small Flap	500 labels	S339330	137
S3417	Slide Label Kit, Large Flap	3000 labels	S341730	137
S3424	Dako Autostainer Reagent Racks	2 racks	S342430	54
S3425	Dako Autostainer Reagent Vials	100 vials	S342530	54
S3704	Autostainer Slide Racks	4 racks	S370430	54
SK001	HercepTest for Automated Link Platforms	50 tests	SK00121	38 148
SK005	PD-L1 IHC 28-8 pharmDx	50 tests	SK00521	39 158
SK006	PD-L1 IHC 22C3 pharmDx	50 tests	SK00621	39 155
SK109	HER2 CISH pharmDx Kit	20 tests	SK10911	154 170
SK110	EnVision DuoFLEX Doublestain System (Link)	100-150 tests, 30 mL	SK11021	53 130
SK200	User-Fillable Reagent Bottles, 5 mL Capacity (Link)	5 mL	SK20005	36
SK201	User-Fillable Reagent Bottles, 12 mL Capacity (Link)	12 mL	SK20110	36
SK202	User-Fillable Reagent Bottles, 25 mL Capacity (Link)	25 mL	SK20225	36
SK203	User-Fillable Bottles, 50 mL Capacity (Link)	50 mL	SK20365	36
SK301	Instrument Cleaning Kit (Link)	18 runs	SK30190	36
SK308	Hematoxylin (Link)	45 mL	SK30881	36 147 149
SK310	ER/PR pharmDx Kit (Link)	50 tests	SK31090	38 146
SL002	Clear-It Cleaning Reagent for Dako Autostainer	3.8 L	SL00230	54
X				
X0590	Biotin Blocking System	15 mL + 15 mL	X059030	134
X0901	Swine Serum (Normal)	10 mL	X090110	121
X0902	Rabbit Serum (Normal)	10 mL	X090210	121
X0903	Negative Control, Rabbit Immunoglobulin Fraction (Normal)	2 mL 10 mL	X090302 X090310	121
X0907	Goat Serum (Normal)	10 mL	X090710	121
X0909	Protein Block, Serum Free	110 mL	X090930	134
X0931	Control Reagent, Mouse IgG1	1 mL	X093101	121
X0936	Negative Control, Rabbit Immunoglobulin Fraction (Solid-Phase Absorbed)	2 mL	X093602	121
X0942	Control Reagent, Mouse IgM	1 mL	X094201	121
X0943	Control Reagent, Mouse IgG2a	1 mL	X094301	121

Product Code Index (continued)

Code	Product	Package Size	Order No.	Page
X0944	Control Reagent, Mouse IgG2b	1 mL	X094401	121
X3021	Levamisole Solution	15 mL	X302130	134
Y				
Y1442	Fragile X Probe, Fluorescein-Labeled	0.1 mL	Y144230	178
Y5200	Epstein-Barr Virus (EBER) PNA Probe/Fluorescein	40 tests, 1 mL	Y520001	177
Y5406	<i>IGH</i> FISH DNA Probe, Split Signal	0.2 mL	Y540629	173
Y5407	<i>BCL2</i> FISH DNA Probe, Split Signal	0.2 mL	Y540729	172
Y5408	<i>BCL6</i> FISH DNA Probe, Split Signal	0.2 mL	Y540829	172
Y5409	<i>MALT1</i> FISH DNA Probe, Split Signal	0.2 mL	Y540929	173
Y5410	<i>MYC</i> FISH DNA Probe, Split Signal	0.2 mL	Y541029	174
Y5414	<i>CCND1</i> FISH DNA Probe, Split Signal	0.2 mL	Y541429	173
Y5417	<i>ALK</i> FISH DNA Probe, Split Signal	0.2 mL	Y541729	172
Z				
Z0097	Polyclonal Rabbit Anti-Laminin	1 mL	Z009701	99
Z0196	Polyclonal Swine Anti-Rabbit Immunoglobulins	2 mL	Z019602	120
Z0259	Polyclonal Rabbit Anti-Mouse Immunoglobulins	2 mL	Z025902	119
Z0311	Polyclonal Rabbit Anti-S100	0.2 mL 1 mL	Z031129 Z031101	110
Z0334	Polyclonal Rabbit Anti-Glial Fibrillary Acidic Protein	0.2 mL 1 mL	Z033429 Z033401	94 117
Z0420	Polyclonal Goat Anti-Mouse Immunoglobulins	1 mL	Z042001	119
Z0622	Polyclonal Rabbit Anti-Cytokeratin, Wide Spectrum Screening	1 mL	Z062201	90
Z5116	Polyclonal Rabbit Anti-PGP 9.5	1 mL	Z511601	107

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