Immunohistochemistry precise results





Achieve accurate results with outstanding quality

Accurate and reproducible immunohistochemistry is essential in research and diagnostics. Whether performing research assays on precious samples or catering to a patient awaiting timely and precise results, Epredia Immunohistochemistry solutions deliver high quality results.

Flexible

- Autostainer 360, 480S, and 720 offer fully open platforms for ultimate customization of reagent layout
- Accommodates customized protocols and reagent delivery
- Slides are rapidly transferred from the PT Module[™] to the Autostainer on racks compatible to both

Robust

- Proven, dependable technology trusted by laboratory staff for years
- Standardized heat-induced epitope retrieval with the PT Module, protecting your staff from harmful fumes by providing safe, solvent-free de-waxing

Accurate

• Advanced reagents drive enhanced sensitivity, producing high-quality, accurate results

The Total Solution

- Achieve accurate and specific results in immunohistochemical assays with our array of detection technologies designed to meet the needs of both the clinical and research market
- Get peace of mind with Epredia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory





Immunohistochemistry Workflow

When test results determine the diagnosis, prognosis and potential treatment of patient disease, achieving accurate, reproducible results in the shortest period of time is crucial. Epredia Immunohistochemistry products provide a comprehensive set of high quality and affordable solutions to bring further standardization to today's laboratories.

Used as a system, Epredia instrumentation, advanced reagents, and specimen verification are the standardized solution for your Immunohistochemistry laboratory. Standardization with quality results brings consistency, and with the Epredia IHC solution, you can rest assured that your process will provide accurate results, time and again.

The following workflow diagram demonstrates the complete Epredia Immunohistochemistry solution.



IHC Sample Request

When Immunohistochemistry (IHC) tests are requested, you require a system that can ensure accurate, reproducible results in the shortest time possible.



Improved Sample Verification

Eliminate manual steps and reduce the potential for patient identification errors. The Epredia IHC system can read SlideMate labeled slides, printed on-demand at any microtome, eliminating timeconsuming manual data entry and/or the need to hand-label IHC slides.





Standardized Antigen Retrieval

Slides receive precise computer-controlled antigen retrieval in the PT Module, which can also perform heat-induced deparaffinization.



One-Step Transfer

Slides rapidly transfer from the PT Module to the Autostainer in one step, maintaining throughput while significantly reducing costs.







Epredia Autostainer

Slides are stained in the fully open Autostainer that leaves laboratories in control of costs and test parameters. The proven record for consistency and dependability minimizes downtime and ensures quality results.



6 Rabbit Monoclonal Antibodies and Enhanced Detection

Advanced reagents drive the enhanced sensitivity and crisp, clean results on the system. The UltraVision Quanto[™] detection system is the latest micropolymer technology capable of enhancing antibodies of mouse and rabbit origin, producing superior results at a surprisingly affordable cost per test.

Superior Results

You can rely on the combination of superior quality, timely results and increased laboratory profitability with the Epredia Immunohistochemistry system. Convince yourself by evaluating the system in your own laboratory — the results speak for themselves.



PSA (Prostate Specific Antigen), clone EP1588Y RM-2104



CDX2, clone EPR2764Y RM-2116

Immunohistochemistry



Physical Specifications

Dimensions ($D \times W \times H$):

360: 26.4 x 30 x 22.8 in. (67 x 76 x 58 cm)

480S: 26.4 x 36 x 22.8 in. (67 x 91 x 58 cm)

720: 26.4 x 50.4 x 22.8 in. (67 x 128 x 58 cm)

Weight:

360: 121 lbs / 55 kg **480S:** 143 lbs / 65 kg **720:** 176 lbs / 80 kg

Power requirements: 100-120 V or 220-240 V; 50/60Hz; 4A max at 100-120 Vac, 2A max at 220-240 Vac

Includes:

Autostainer unit, slide racks (number varies per instrument), reagent rack for barcoded vials (number varies per instrument), PC Computer, 19" flat panel monitor, Zebra reagent and slide label barcode printers, universal power supply temporary backup, color ink jet printer, one wash buffer input and one DI water input, waste separation into hazardous and nonhazardous containers, waste/ bulk fluid containers, four, ten-liter carboys, cleaning kit; brush and reagents for automated cleaning, buffer rinse squirt bottle for rinsing slides, misc. USB and power cords (all required cords included), electronic manual on CD.

Autostainer 360, 480S, and 720

In an industry where seemingly small decisions can have huge implications and the quality of your test is critical, it is good to know that Epredia has a range of fast, accurate and cost effective solutions used globally throughout the Immunohistochemistry (IHC) field.

Our IHC range of solutions combines the knowledge and experience of one of the best known names in the IHC field (Labvision), with the backing and support of the world leader in serving science.

What's Best for the Patient

- Standardized and precise antigen retrieval, combined with reliable staining units provides assurance your requested tests are stained according to your high-quality standards
- Dual barcoding ensures that each slide receives the correct reagents

Make Better Use of Time

- Robust, reliable automation of processes allows you to spend your time handling results rather than diagnosing instrumentation problems
- Barcoding of slides and reagents simplifies the instrument loading and programming process
- Rapid staining turn-around time means higher throughput and allows you to return patient specimen test faster

Adapted to Fit Your Specific Needs

- Standardization of processes via the PT Module and Epredia Autostainer produces consistent, high-quality results
- Three models allow for any instrument configuration to best accommodate average slide volumes and peaks throughout the day
- The open platform enables you to take full advantage of flexible protocol design and consider economically attractive reagent packages

Save money and save lives

• Get the best possible value by working directly with the manufacturer of both the instruments and reagents; and benefit from the simplicity of getting any solution for the pathology laboratory from a single source

Autostainer 360

• This most compact variant is ideal for laboratories where speed and continuous workflow are imperative

Autostainer 480S

• All the benefits of the 360 but with increased slide capacity to 48 slides and up to 49 reagent vials

Autostainer 720

• The Autostainer 720 handles up to 84 slides at once and is designed for large-batch applications

Description	Order Number
Autostainer 360	
110/120 V	A80500004A
220/240 V	A80500003
Autostainer 480S	
110/120 V	A80500008A
220/240 V	A80500007
Autostainer 720	
110/120 V	A80500001A
220/240 V	A80500009

Autostainer Accessories	Qty.	Order Number
Barcodeable Autostainer vial 12 ml	100 vials	K00029
Reagent vial barcode labels	3000 labels	A80510134
Slide labels (solvent resistant, no flap)	2600 labels	A80510164
Slide labels (solvent resistant, flap)	2500 labels	A80510135
Autostainer operator guide	1 CD	A80510107-CD
PT Module pump kit	1 kit	A80410030
Autostainer 480 reagent rack	1 rack	A80510138
2D Autostainer vial storage rack	1 rack	S00140
PT Module tank and lid	1 tank and lid	P00005A



You'll need:



Immunohistochemistry



PT Module

Standardization in the laboratory is important to obtaining high quality and consistent IHC staining. The PT Module standardizes the manual steps associated with the pre-treatment of slides.

Features

- Designed to simultaneously perform dewaxing and epitope recovery on slides prior to immunostaining
- Accommodates either four Autostainer slide racks or eight standard manual slide racks directly into the PT Module
- Integrated computer with touch screen for programming standardized pretreatment programs
- Ability to modify the start/stop time and temperature settings to optimize results
- The PT Module has dual reaction baths so that two individual procedures, each with 24 slides, may be run independently
- Epredia's proprietary epitope recovery solutions provide safe, solvent-free dewaxing and is safer for the environment
- Delayed start option allows overnight processing so slides are ready and waiting when you start your day

Dewax and HIER Buffers

- Patented formula, specifically designed for use with the PT Module
- Dissolves paraffin instead of just melting it

Dimensions (D x W x H): 25.5 x 10.5 x 10 in. (65 x 27 x 26 cm)

Weight: Empty: 33 lbs (15 kg)

Power requirements: 100-120 V, 50/60 Hz, 10A Max 220-240 V, 50/60 Hz, 5A Max

Includes:

Stainless steel buffer tank (2/ pk.), buffer tank cover (2/pk.), serial cable, buffer kit, IVD letter, operator information pack, accessory pump kit, EMC statement.



Dewax and HIER Buffers Paraffin is dissolved into the aqueous solution more completely and at a lower temperature. Wax will not re-coat the slide upon removal.



Dewax and HIER Buffers

With the new solution, paraffin is dissolved into solution and the slides can be removed cleanly.



Description	Order Number
110/120 V	A80400012
220/240 V	A80400011

Sequenza Slide Racks and Coverplates	Qtv.	Order Number
Sequenza slide rack and lid	Holds 10 slides	73310017
Coverplates	250 / case	72110013
Coverplates	25 / pack	72110017
Dropper bottles	50 / pack	73310007
Buffer bottle 750 mL	ea.	73310002
		Order
Shandon Humidity Chamber	Qty.	Number
Humidity chamber	ea.	197
Aluminum slide tray	ea.	203
Acrylic lid	ea.	231974
Polyethylene lid	ea.	10388

Epitope Retrieval	Order Number	Use
Dewax and HIER Buffer (H, M, L) variety pack (15x concentrate)	TA-999-DHBVP	IVD
Dewax and HIER Buffer H (15x concentrate) 10x100 mL	TA-999-DHBH	IVD
Dewax and HIER Buffer L (15x concentrate) 10x100 mL	TA-999-DHBL	IVD
Dewax and HIER Buffer M (15x concentrate) 10x100 mL	TA-999-DHBM	IVD
HIER Buffer H, 9 BT/CS Tris-EDTA Buffer, 15 mL/BT	ТА-135-НВН	IVD
HIER Buffer L, 9 BT/CS Citrate Buffer, 15 mL/BT	TA-135-HBL	IVD
HIER Buffer M, 9 BT.CS EDTA Buffer, 15 mL/BT	TA-135-HBM	IVD
Citrate Buffer for HIER 125 mL	AP-9003-125	IVD
Citrate Buffer for HIER 500 mL	AP-9003-500	IVD
EDTA Buffer for HIER (10x) 125 mL	AP-9004-125	IVD
EDTA Buffer for HIER (10x) 500 mL	AP-9004-500	IVD
Tris HCI Buffer for HIER (10x) 50 mL	AP-9005-050	IVD
Tris-HCI Buffer for HIER (10x) 125 mL	AP-9005-125	IVD
Tris-HCI Buffer for HIER (10x) 500 mL	AP-9005-500	IVD

Enzyme Retrieval	Order Number	Use
Protease XXV for Enzyme-Induced Epitope Retrieval 2 mL	AP-9006-002	IVD
Protease XXV for Enzyme-Induced Epitope Retrieval 5 mL	AP-9006-005	IVD
Pepsin Solution for Enzyme-Induced Epitope Retrieval 5 mL	AP-9007-005	IVD



Breast Panel



Estrogen receptor positive breast ca stained with Clone SP1 (RM-9101-S) and UltraVision Quanto.



High grade breast ca stained with Ki67 Clone SP6 (RM-9106-S) and UltraVision Quanto.



Breast ca with amplified Her 2 stained with Clone SP3 (RM-9103-S) visualized with UltraVision Quanto

Antibody	Clone	Cat. No.	Description	Regulatory Status
Estrogen Receptor	SP1	RM-9101	SP1 is quickly becoming the gold standard in ER evaluation with higher sensitivity than other common tests ¹	usa: IVD Int'l: IVD
Progesterone Receptor	SP2	RM-9102	Sensitive and specific PR marker	USA: IVD INT'L: IVD
Ki-67	SP6	RM-9106	Produces substantially less background than commonly used Ki67 antibodies ²	usa: IVD Int'l: IVD
Her-2	SP3	RM-9103	High resolving power may reduce 2+ results that require additional FISH testing ³	usa: Asr Int'l: IVD
р53	Y5	RM-2103	Negative prognostic factor in breast cancer	usa: IVD Int'l: IVD
Keratin 5	XM26	MS-1896	Sensitive for identifying the "basal-like" phenotype of breast cancer4	usa: IVD Int'l: IVD
Keratin 7	0V-TL 12/30	MS-1352	Identifies luminal cells and is useful for distinguishing between lung and breast epithelium	usa: IVD Int'l: IVD
Keratin 20	Ks20.8	MS-377	Useful as a negative indicator for breast adenocarcinomas	usa: IVD Int'l: IVD
Mammaglobin	3304-1A5	MS-1919	Mammary marker and elevated expression may indicate a less aggressive tumor.	usa: IVD Int'l: IVD
NY-BR-1	NYBR-1#2	MS-1932	Highly specific breast marker useful for identifying undifferentiated breast cancer $^{\scriptscriptstyle 5}$	usa: IVD Int'l: IVD
E-Cadherin	EP700Y	RM-2100	Useful for differentiating lobular from ductal breast carcinoma	usa: IVD Int'l: IVD

'Cheang MC, Treaba DO, Speers CH, Olivotto IA, Bajdik CD, Chia SK, Goldstein LC, Gelmon KA, Huntsman D, Gilks CB, Nielsen TO, Gown AM. Immunohistochemical detection using the new rabbit monoclonal antibody SP1 of estrogen receptor in breast cancer is superior to mouse monoclonal antibody 1D5 in predicting survival. J Clin Oncol. 2006 Dec 20;24(36):5637-44.

²Zabalgo L, Salter J, Anderson H, Quinn E, Hills M, Detre S, A'Hern R, Dowsett M. Comparative validation of the SP6 antibody to Ki67 in breast cancer. J Clin Pathol. 2010 Sep;83(9):800-4.

3Sheila C.L. Wludarski, MD and Carlos E. Bacchi, MD, PhD. High Concordance of SP3 Rabbit Monoclonal Antibody With FISH to Evaluate HER2 in Breast Carcinoma. Appl Immunohistochem Mol Morphol. 2008 Oct;16(5):466-70.

"Rohit Bhargava, MD, Sushil Beriwal, MD, Kim McManus, HT(ASCP), and David J. Dabbs, MD. CK5 is More Sensitive Than CK5/6 in Identifying the "Basel-Like" Phenotype of Breast Carcinoma. AM J Clin Pathol 2008;130:724-730.

^aVarga Z, Theurillat JP, Filonenko V, Sasse B, Odermatt B, Jungbluth AA, Chen YT, Old LJ, Knuth A, Jäger D, Moch H. Preferential nuclear and cytoplasmic NY-BR-1 protein expression in primary breast cancer and lymph node metastases. Clin Cancer Res. 2006 May 1:12(9):2745-51.

'Descriptions are for general reference only. Please consult the datasheet and current literature for more information.

Prostate Panel



Prostate carcinoma identified with PSA Clone EP1588Y (RM-2104-S) and UltraVision Quanto.



Prostate carcinoma stained with p540s -AMACR Clone 13H4 (RM-9130-S) and UltraVision Quanto.



Prostate cancer stained with PSMA Clone SP29 (RM-9131-S) and UltraVision Quanto.

Clone	Cat. No.	Description	Regulatory Status
13H4	RM-9130	Typically positive in malignant prostate but negative in benign lesions ¹	usa: IVD Int'l: Ruo
EP1601Y	RM-2106	Stains basal epithelia in normal prostate tissue	usa: IVD Int'l: IVD
Ks20.8	MS-377	Assists with differentiating prostate from bladder cancer ³	usa: IVD Int'l: IVD
Polyclonal	RB-9020	Stains basal epithelia in normal prostate tissue	usa: IVD Int'l: IVD
MOC-31	MS-741	Positive indicator for Adenocarcinoma	usa: IVD Int'l: IVD
SP6	RM-9106	Excellent proliferation marker	usa: IVD Int'l: IVD
EP1588Y	RM-2104	Useful for identifying cells of prostatic origin ¹	usa: Asr Int'l: IVD
PASE/4LJ	MS-321	Useful for identifying cells of prostatic origin ¹	usa: IVD Int'l: IVD
SP29	RM-9131	Useful for identifying cells of prostatic origin and can be combined with PSA to increase sensitivity ²	usa: IVD Int'l: IVD
	Clone 13H4 EP1601Y Ks20.8 Polyclonal MOC-31 SP6 EP1588Y PASE/4LJ SP29	Clone Cat. No. 13H4 RM-9130 EP1601Y RM-2106 Ks20.8 MS-377 Polyclonal RB-9020 MOC-31 MS-741 SP6 RM-9106 PASE/4LJ RM-2104 SP29 RM-9131	CloneCat. No.Description13H4RM-9130Typically positive in malignant prostate but negative in benign lesions1FP1601YRM-2106Stains basal epithelia in normal prostate tissueKs20.8MS-377Assists with differentiating prostate from bladder cancer3PolyclonalRB-9020Stains basal epithelia in normal prostate tissueMOC-31MS-741Positive indicator for AdenocarcinomaFP1588YRM-9106Excellent proliferation markerFN584YLMS-321Useful for identifying cells of prostatic origin1SP29RM-9131Useful for identifying cells of prostatic origin and can be combined with PSA to increase sensitivity2

Paner GP, Luthringer DJ, Amin MB. Best practice in diagnostic immunohistochemistry: prostate carcinoma and its mimics in needle core biopsies. Arch Pathol Lab Med. 2008 Sep;132(9):1388-96.

^aMhawech-Fauceglia P, Zhang S, Terracciano L, Sauter G, Chadhuri A, Herrmann FR, Penetrante R. Prostate-specific membrane antigen (PSMA) protein expression in normal and neoplastic tissues and its sensitivity and specificity in prostate adenocarcinoma: an immunohistochemical study using multiple turnour tissue microarray technique. Histopathology. 2007 Mar;50(4):472-83.

Bassily NH, Vallorosi CJ, Akdas G, Montie JE, Rubin MA. Coordinate expression of cytokeratins 7 and 20 in prostate adenocarcinoma and bladder urothelial carcinoma. AM J Clin Pathol. 2000 Mar;113(3):383-8.

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Gastrointestinal Panel



Metastatic colon ca stained with CDX2 (RM-2116-S) and UltraVision Quanto.



Colon carcinoma stained with COX2 (MS-1898-S) and UltraVision Quanto.



H. pylori stained in stomach tissue with H. pylori (RB 9070-P) and UltraVision Quanto.

Antibody	Clone	Cat. No. (RTU)	Description	Regulatory Status
CDX2	EPR2764Y	RM-2116	Useful for differentiating gastrointestinal origin with undifferentiated tumors	usa: IVD Int'l: IVD
Pan CK	AE1/AE3	MS-343	Useful for identifying carcinoma	usa: IVD Int'l: IVD
Keratin 7	OV-TL 12/30	MS-1352	Reacts with proteins in ductal and glandular tissues	usa: IVD Int'l: IVD
Keratin 20	Ks20.8	MS-377	Reacts primarily with intestinal and gastric epithelium	usa: IVD Int'l: IVD
COX-2	SP21	RM-9121	Suggested as a poor prognostic indicator in colon carcinoma	usa: IVD Int'l: IVD
CD117	Polyclonal	RB-9038	Useful for identifying gastrointestinal stroma tumors (GIST) ¹	usa: IVD Int'l: IVD
Dog-1	1.1	MS-1933	Very useful for identifying gastrointestinal stroma tumors (GIST) ¹	usa: IVD Int'l: IVD
Dog-1	SP31	RM-9132	Very useful for identifying gastrointestinal stroma tumors (GIST) ¹	usa: IVD Int'l: IVD
H-pylori	Polyclonal	RB-9070	Reacts with H-pylori in the GI tract	usa: Asr Int'l: IVD
Ki-67	SP6	RM-9106	Excellent proliferation marker	usa: IVD Int'l: IVD
CA19-9	121 SLE	MS-379	Highly expressed in gastrointestinal adenocarcinomas	usa: IVD Int'l: IVD
Villin	CWWB1	MS-1499	Useful for identifying gastrointestinal adenocarcinoma	usa: IVD Int'l: IVD
Epithelial Specific Antigen	Ber-EP4	MS-1898	Useful for distinguishing adenocarcinoma from mesothelioma and hepatocellular carcinoma	usa: IVD Int'l: IVD
Her-2	SP3	RM-9103	Anti-Her2 therapies have increased survival rates in Her-2 over-expressing gastric cancer	USA: ASR INT'L: IVD

1Novelli M, Rossi S, Rodriguez-Justo M, Taniere P, Seddon B, Toffolati L, Sartor C, Hogenddom PC, Sciot R, Van Glabbeke M, Verqeij J, Blay JY, Hohenberger P, Flanagan A, Del Tos AP, DOG1 and CD117 are the antibodies of choice in the

diagnosis of gastrointestinal stromal tumours. Histopathology. 2010 Aug;57(2):259-70.

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