

Cytokeratin, High Molecular Weight

Availability/Contents:	Item #	Volume
	A20071	2 ml
	A00071	6 ml
	A00071.25	25 ml

Description:


Species:	Mouse
Immunogen:	BALB/C mice were immunized with solubilized keratin extract from human stratum corneum.
Clone:	34βE12
Isotype:	IgG1, Kappa
Format:	This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.
Specificity:	This antibody recognizes keratin polypeptide of 68, 58, 56.5 and 50 kD. This antibody stains squamous, ductal and other complex epithelium. This antibody reacts with squamous cell and ductal carcinomas of the breast, pancreas, bile duct and salivary gland, in addition to transitional cell carcinomas of the bladder and nasopharynx, thymomas, and epithelioid mesotheliomas. Mesenchymal tissues such as blood vessel, smooth muscle, skeletal muscle, dermis and nervous tissue are not stained.
Species Reactivity:	Human
Positive Control:	Human, Horse, Monkey, rabbit. Others-not tested.
Cellular Localization:	Any tissue containing squamous epithelium.
Titer/Working Dilution:	No further dilution is required.
Microbiological State:	This product is not sterile.


Uses/Limitations:	For In Vitro Diagnostic Use. This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Do not use past expiration date.
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Storage and Stability:	2-8° Centigrade. Product is stable for 24 months from date of manufacture. If reagent is not stored as recommended, performance must be validated by the user.
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Procedure:

1. Tissue Section Pretreatment: Staining of formalin fixed, paraffin embedded tissue sections is enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500) or 10mM citrate buffer, pH 6.0 (ScyTek Catalog# CBB500, see IFU for instructions). Enzymatic predigestion with Pepsin (ScyTek catalog# PSS060, see IFU for instructions) is recommended prior to staining.
2. Primary Antibody Incubation Time: We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.

Storage: 2°C  8°C

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3. Visualization: For maximum staining intensity we recommend the "Retrieval HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# RPL125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).


Precautions: Contains Sodium Azide as a preservative (0.09% w/v).
Do not pipette by mouth.
Avoid contact of reagents and specimens with skin and mucous membranes.
Avoid microbial contamination of reagents or increased nonspecific staining may occur.
This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

References:

1. Gown AM and Vogel AM. Monoclonal antibodies to intermediate filament proteins of human cells: 1. Unique and cross-reacting antibodies. J. Cell Biology 1982; 95:414.
2. Moll R, et al. The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors, and cultured cells, Cell 1982; 31:11
3. Gown AM and Vogel AM. Monoclonal antibodies to intermediate filament proteins of human cells: II. Distribution of filament proteins in normal human tissue. American Journal of Pathology 1984; 114:309.
4. Gown AM and Vogel AM. Monoclonal antibodies to human intermediate filament proteins: III. Analysis of tumors. American Journal of Clinical Pathology 1985; 84:413.
5. Dairkee SH, et al. Expression of basal and luminal epithelium-specific keratins in normal benign and malignant breast tissue. J National cancer Institute 1988; 80:691.
6. O'Malley FP, et al. Usefulness of immunoperoxidase staining with high-molecular-weight cytokeratin in the differential diagnosis of small-acinar lesions of the prostate gland. Virch Arch A Pathol Anat 1990; 417:191.

Warranty: No products or "Instructions For Use (IFU)" are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

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