P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - www.scytek.com

Monoclonal Mouse Antibody to Human Cytokeratin, High Molecular Weight

Description:

Immunogen: BALB/C mice were immunized with solubilized keratin extract from human stratum corneum.

Clone: 34βE12

Isotype: $IgG_1\kappa$

Format: This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. Superior results have been observed on Cornoy's or Methacarn-fixed tissue. 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 nasopharnyx, thymomas, and epithelioid mesotheliomas. Mesenchymal tissues such as blood vessel, smooth muscle, skeletal muscle, dermis and nervous tissue are not stained.

Species Reactivity: Human, Horse, Monkey, rabbit. Others-not tested.

Positive Control: Any tissue containing squamous epithelium.

Uses/Limitations: Immunohistochemistry
For Research Use Only.
Do not use past expiration date.

Storage: 2-8º Centigrade.

Procedure: ScyTek suggests 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. Enzymatic predigestion of paraffin embedded tissues is recommended prior to immunostaining.

Precautions: Contains Sodium Azide as a preservative.
Do not pipette by mouth.

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.

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2. Moll R, et al. The catalog of human cytokertins: 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.