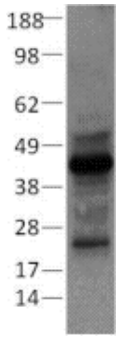
Anti-Acidic Cytokeratin Purified

Catalog Number: 14-9001
Also Known As:keratin
RUO: For Research Use Only. Not for use in diagnostic procedures.



MCF7 cell lysates prepared under reducing conditions were resolved by SDS-PAGE then immunoblotted with 2 µg/ml of Anti-Acidic Cytokeratin Purified. Bands were visualized using Anti-Mouse IgG HRP.

Product Information

Contents: Anti-Acidic Cytokeratin Purified
REF **Catalog Number:** 14-9001
Clone: AE1
Concentration: 0.5 mg/mL
Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description
The monoclonal antibody AE1 recognizes many members of the acidic (Type I) family of cytokeratins. Cytokeratins are intermediate filament proteins comprising one component of the cytoskeleton. There are two large families of cytokeratins, acidic and basic, but all contain the same basic domains (i.e. an α-helical core with an N- and C-terminal domain). The proteins are expressed in epithelial cells, but are developmentally regulated. Many tumors also express these cytokeratins, and their expression can help identify the origin of a neoplasm.

The AE1 monoclonal antibody recognizes 56.5, 50, 50', 48, and 40 kDa proteins (also known as CK10, 14, 15, 16 and 19) in mouse, human, rat, primate (cynomolgus and rhesus), dog, cat, rabbit and chicken.

Applications Reported
This AE1 antibody has been reported for use in immunoblotting (WB), immunohistology staining of frozen tissue sections, and immunohistology staining of paraffin embedded tissue sections.

Applications Tested
This AE1 antibody has been tested by western blot on SDS-reduced lysates from MCF-7 cells at less than or equal to 2 µg/ml. It is recommended that the antibody be titrated for optimal performance in the assay of interest.

References
Sato T, Maeda H, Suzuki A, Shibuya H, Sakata A, Shirai W. Endometrial stromal sarcoma with smooth muscle and glandular differentiation of the feline uterus. Vet Pathol. 2007 May;44(3):379-82. (**AE1/AE3**, IHC, feline)

Chen SS, Revoltella RP, Papini S, Michelini M, Fitzgerald W, Zimmerberg J, Margolis L. Multilineage differentiation of rhesus monkey embryonic stem cells in three-dimensional culture systems. Stem Cells. 2003;21(3):281-95.(**AE1/AE3**, IHC, rhesus)

Woodcock-Mitchell J, Eichner R, Nelson WG, Sun TT. Immunolocalization of keratin polypeptides in human epidermis using monoclonal antibodies. J Cell Biol. 1982 Nov;95(2 Pt 1):580-8. (**AE1/AE3**, WB, IHC, PubMed)

Tseng SC, Jarvinen MJ, Nelson WG, Huang JW, Woodcock-Mitchell J, Sun TT. Correlation of specific keratins with different types of epithelial differentiation: monoclonal antibody studies. Cell. 1982 Sep;30(2):361-72.

Related Products
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)
14-9000 Anti-Basic Cytokeratin Purified (AE3)

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