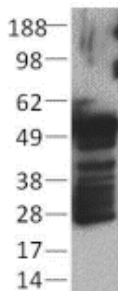


## Anti-Basic Cytokeratin Purified

Catalog Number: 14-9000

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-Basic Cytokeratin Purified. Bands were visualized using Anti-Mouse IgG HRP

### Product Information

**Contents:** Anti-Basic Cytokeratin Purified

**REF** Catalog Number: 14-9000

**Clone:** AE3

**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.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Caution, contains Azide**

### Description

The monoclonal antibody AE3 recognizes many members of the basic (Type II) cytokeratin family. 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  $\alpha$ -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 AE3 monoclonal antibody recognizes the 65 to 67 triplet, 64, 59, 58, 56, and 52kD proteins (also known as cytokeratin 1, 2, 3, 4, 5, 6, 7 and 8) in mouse, human, rat, primate (cynomolgus and rhesus), dog, cat, rabbit and chicken.

### Applications Reported

This AE3 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 AE3 antibody has been by tested 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)

14-9001 Anti-Acidic Cytokeratin Purified (AE1)

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