Anti-Human Cytokeratin 19 FITC

Catalog Number: 11-9898 Also known as: CK19, Keratin 19 RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

REF	Contents: Anti-Human Cytokeratin 19 FITC Catalog Number: 11-9898 Clone: BA17 Concentration: 0.5 mg/mL Host/Isotype: Mouse IgG1, kappa		Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material. Batch Code: Refer to vial Use By: Refer to vial Contains sodium azide
-----	---	--	--

Description

This BA17 monoclonal antibody reacts with human cytokeratin 19 (CK19), a 44-kDa type I (acidic) intermediate filament protein that lacks the non-alpha-helical tail domain present in other keratins. Cytokeratins form the intracellular cytoskeletal network that maintains the integrity and stability of cells and tissues. Cytokeratin 19 is expressed in a wide variety of simple and stratified epithelial tissue. Moreover, cytokeratin 19 expression can be induced by vitamin A, SV40 transformation, and cancer. A soluble form of cytokeratin 19 generated by caspase 3 cleavage has also been found to be secreted by cancer cells, thus possibly indicating tumor metastasis. Cytokeratin 19 often exists as a heterodimer with cytokeratin 7, a type II keratin.

Applications Reported

This BA17 antibody has been reported for use in immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, and immunocytochemistry.

Applications Tested

This BA17 antibody has been tested by immunocytochemistry of fixed and permeabilized MCF-7 cells. This can be used at less than or equal to 20 μ g/ml. It is recommended that the antibody be titrated for optimal performance in the assay of interest.

References

Alix-Panabières C, Vendrell JP, Slijper M, Pellé O, Barbotte E, Mercier G, Jacot W, Fabbro M, Pantel K. Full-length cytokeratin-19 is released by human tumor cells: a potential role in metastatic progression of breast cancer. Breast Cancer Res. 2009;11(3):R39.

Moll R, Divo M, Langbein L. The human keratins: biology and pathology. Histochem Cell Biol. 2008 Jun;129(6):705-33.

Bártek J, Bártková J, Taylor-Papadimitriou J, Rejthar A, Kovarík J, Lukás Z, Vojtesek B. Differential expression of keratin 19 in normal human epithelial tissues revealed by monospecific monoclonal antibodies. Histochem J. 1986 Oct;18(10):565-75. (**BA17**, IHC)

Bader BL, Magin TM, Hatzfeld M, Franke WW. Amino acid sequence and gene organization of cytokeratin no. 19, an exceptional tail-less intermediate filament protein. EMBO J. 1986 Aug;5(8):1865-75.

Related Products

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1) 11-9938 Anti-Human Cytokeratin 8 FITC (LP3K) 14-9000 Anti-Basic Cytokeratin Purified (AE3) 14-9001 Anti-Acidic Cytokeratin Purified (AE1) 53-9003 Anti-Pan-Cytokeratin (AE1/AE3) Alexa Fluor® 488 (AE1/AE3)