

Anti-Human Cytokeratin 19 eFluor® 615

Catalog Number: 42-9898

Also known as: CK19, Keratin 19

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human Cytokeratin 19 eFluor® 615

 **Catalog Number:** 42-9898

Clone: BA17

Concentration: 0.2 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



 **LOT**



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 immunocytochemical and immunohistochemical staining of formalin-fixed paraffin embedded (FFPE) tissue.

Applications Tested

This BA17 antibody has been tested by immunocytochemistry (ICC) on fixed and permeabilized MCF-7 cells at less than or equal to 10 ug/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest. This product has not been validated for flow cytometric analysis.

Filter Recommendation: When using this eFluor® 615 antibody conjugate, we recommend a filter that will capture the 615 emission wavelength (for example, Excitation 560/55, 585LP, Emission 645/75). A standard Alexa Fluor® 594 filter is acceptable.

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, Kovarik 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

00-4953 IHC /ICC Blocking Buffer - Low Protein

00-4954 20X TBS Wash Buffer for IHC/ICC

00-4958 Fluoromount-G™

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42-4714 Mouse IgG1 K Isotype Control eFluor® 615 (P3.6.2.8.1)

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