Anti-Human Cytokeratin 8 eFluor® 615

Catalog Number: 42-9938
Also known as: CK8
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human Cytokeratin 8 eFluor® 615
REF **Catalog Number:** 42-9938
Clone: LP3K
Concentration: 0.2 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. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

This LP3K monoclonal antibody reacts with human cytokeratin 8 (K8), a 55-kDa member of the family of intermediate filament proteins. Cytokeratin 8 is a type II (or basic) keratin that is expressed in epithelial and carcinoma cells. Cytokeratins form the intracellular cytoskeletal network that maintains the integrity and stability of cells and tissues. More specifically, studies have demonstrated the involvement of cytokeratin 8 in protection against apoptosis, stress, or injury, as well as regulation of the cell cycle. This keratin is frequently co-expressed with cytokeratin 18, a type I (or acidic) keratin as a heterodimer. Although detected primarily in the cytoplasm of normal healthy cells, cytokeratin 8 has been found to localize to the plasma membrane in some tumor cells. Finally, cytokeratin 8 is phosphorylated on serine 73 in dividing cells.

Applications Reported

This LP3K antibody has been reported for use in immunocytochemical staining (ICC).

Applications Tested

This LP3K antibody has been tested by immunocytochemistry on fixed MCF7 cells at less than or equal to 10 ug/mL. 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

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

Gires O, Andratschke M, Schmitt B, Mack B, Schaffrik M. Cytokeratin 8 associates with the external leaflet of plasma membranes in tumour cells. Biochem Biophys Res Commun. 2005 Mar 25;328(4):1154-62.

Waseem A, Karsten U, Leigh IM, Purkis P, Waseem NH, Lane EB. Conformational changes in the rod domain of human keratin 8 following heterotypic association with keratin 18 and its implication for filament stability. Biochemistry. 2004 Feb 10;43(5):1283-95. (**LP3K**, WB)

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein
00-4954 20X TBS Wash Buffer for IHC/ICC
00-4958 Fluoromount-G™
42-4714 Mouse IgG1 K Isotype Control eFluor® 615 (P3.6.2.8.1)

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com