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## Anti-Human Cytokeratin 8 FITC


**Catalog Number:** 11-9938



**Also known as:** keratin-8, CK8

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

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### Product Information

**Contents:** Anti-Human Cytokeratin 8 FITC  
 **Catalog Number:** 11-9938  
**Clone:** LP3K  
**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. Do not freeze. Light sensitive material.  
 **Batch Code:** Refer to vial  
 **Use By:** Refer to vial

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### 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 immunofluorescent microscopy.

### Applications Tested

This LP3K antibody has been tested by immunofluorescent staining of methanol-fixed MCF-7 cells. This can be used at less than or equal to 10 µg/ml. It is recommended that the antibody be titrated for optimal performance in the assay of interest.

### 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

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)