

## Cytokeratin 17 monoclonal antibody

Catalog: MB65910

Host: Mouse

Reactivity: Human

### BackGround:

Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratin heterodimers composed of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) assemble to form filaments (1,2). Keratin isoforms demonstrate tissue- and differentiation-specific profiles that make them useful as research biomarkers. Research studies have shown that mutations in keratin genes are associated with skin disorders, liver and pancreatic diseases, and inflammatory intestinal diseases.

Keratin 17 is involved in wound healing and cell growth, two processes that require rapid cytoskeletal remodeling. Keratinocytes deficient in keratin 17 exhibit abnormal Akt/mTOR signaling and fail to produce an increase in translation, cell size, or growth; these cells also exhibit abnormal 14-3-3 $\sigma$  localization. As 14-3-3 $\sigma$  typically associates with keratin 17, these results imply that Akt/mTOR signaling results in sequestration of 14-3-3 $\sigma$  with keratin 17 in the cytosol, which is required for translation and cell growth. Phosphorylation of keratin 17 on Ser44 may provide a docking site for 14-3-3 $\sigma$  binding.

### Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 48 kDa

### Swiss-Prot:

Q04695

### Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB (1/1000 - 1/2000), IP (1/50 - 1/200)

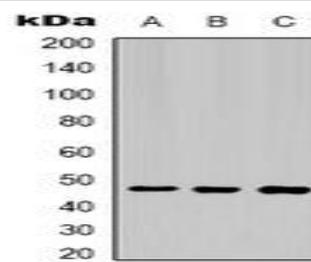
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

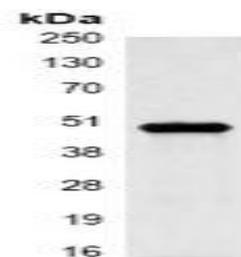
### Specificity:

Recognizes endogenous levels of Cytokeratin 17 protein.

### DATA:



Western blot analysis of Cytokeratin 17 expression in HeLa (A), MCF7 (B), 293T (C) whole cell lysates.



Immunoprecipitation of Cytokeratin 17 from 0.5mg HeLa whole cell extract lysate, using Anti-Cytokeratin 17 Antibody.

### Note:

For research use only, not for use in diagnostic procedure.

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