

Cytokeratin 5 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1263a

Product Information

Application	WB, E
Primary Accession	P13647
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1E1
Isotype	IgG1
Calculated MW	62378
Description	<p>Cytokeratin 5, also known as CK5, KRT5. It is a member of the keratin gene family. Biochemically, most members of the CK family fall into one of two classes, type I (acidic polypeptides) and type II (basic polypeptides). The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. At least one member of the acidic family and one member of the basic family is expressed in all epithelial cells. Cytokeratin 5 is expressed in normal basal cells. Mutations of the Cytokeratin5 gene (KRT5) have been shown to result in the autosomal dominant disorder epidermolysis bullosa (EB). Defects in KRT5 are a cause of epidermolysis bullosa simplex.</p>
Immunogen	Purified recombinant fragment of Cytokeratin 5 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	3852
Other Names	Keratin, type II cytoskeletal 5, 58 kDa cytokeratin, Cytokeratin-5, CK-5, Keratin-5, K5, Type-II keratin Kb5, KRT5
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Cytokeratin 5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KRT5
Function	Required for the formation of keratin intermediate filaments in the basal epidermis and maintenance of the skin barrier in response to mechanical stress (By similarity). Regulates the recruitment of Langerhans cells to the epidermis, potentially by modulation of the abundance of macrophage chemotactic cytokines, macrophage inflammatory cytokines and CTNND1 localization in keratinocytes (By similarity).
Cellular Location	Cytoplasm.
Tissue Location	Expressed in corneal epithelium (at protein level) (PubMed:26758872). Expressed in keratinocytes (at protein level) (PubMed:20128788, PubMed:31302245).

References

1. J Invest Dermatol. 2003 Sep;121(3):482-5. 2. J Cell Sci. 2005 Mar 1;118(Pt 5):1081-90.

Images

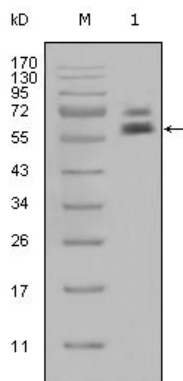


Figure 1: Western blot analysis using CK5 mouse mAb against Hela cell lysate (1).

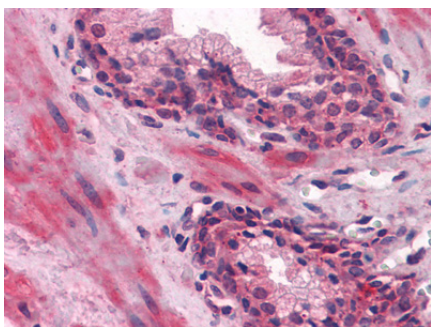
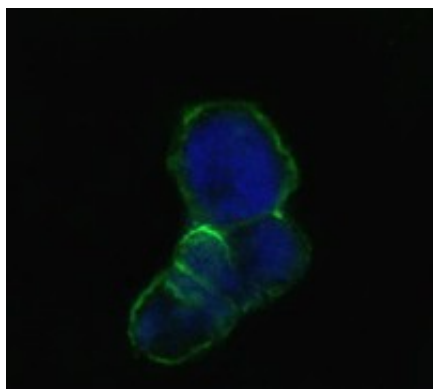


Figure 2: Immunohistochemical analysis of paraffin-embedded human Prostate tissues using LCN1 mouse mAb

Figure 2: Confocal immunofluorescence analysis of methanol-fixed HEK293 cells trasfected with LCN1-hIgGFc using anti-LCN1 monoclonal antioby(green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.



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