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Mouse Monoclonal Antibody to KRT10

Purified Mouse Monoclonal Antibody
Catalog # AO2462a

Product Information

Application	WB, IHC, FC, E
Primary Accession	P13645
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Clone Names	3C2F5
Isotype	Mouse IgG1
Calculated MW	58827
Description	This gene encodes a member of the type I (acidic) cytokeratin family, which belongs to the superfamily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. Mutations in this gene are associated with epidermolytic hyperkeratosis. This gene is located within a cluster of keratin family members on chromosome 17q21.;
Immunogen	Purified recombinant fragment of human KRT10 (AA: 345-454) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; FCM: 1/200 - 1/400

Additional Information

Gene ID	3858
Other Names	BIE; EHK; K10; KPP; BCIE; CK10
Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 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	Mouse Monoclonal Antibody to KRT10 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

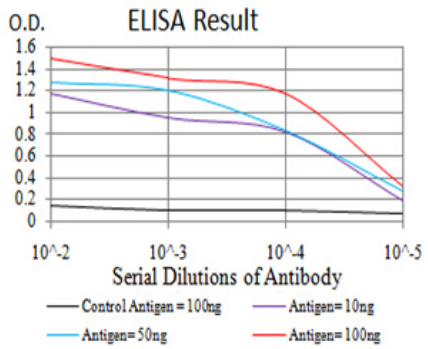
Name	KRT10 (HGNC:6413)

Synonyms	KPP
Function	Structural component of intermediate filaments in suprabasal keratinocytes of stratified epithelia. Forms heteropolymers primarily with the type II keratin KRT1, and also with KRT2, assembling into intermediate filament networks that support terminal differentiation, mechanical resilience, and epidermal barrier formation.
Cellular Location	Secreted, extracellular space. Cell surface. Cytoplasm
Tissue Location	Seen in all suprabasal cell layers including stratum corneum. Expressed on the surface of lung cell lines (PubMed:19627498). Localized on the surface of desquamated nasal epithelial cells (at protein level) (PubMed:12427098)

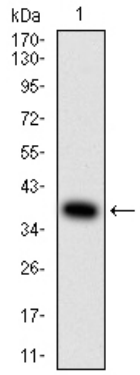
References

1.JAMA Dermatol. 2015 Jan;151(1):64-9. ; 2.Histopathology. 2012 Nov;61(5):910-20. ;

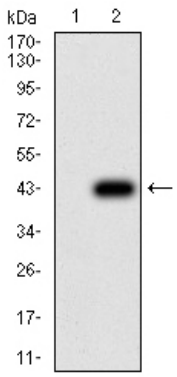
Images



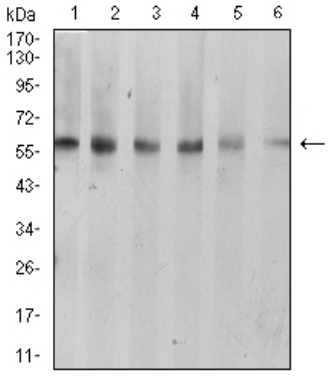
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



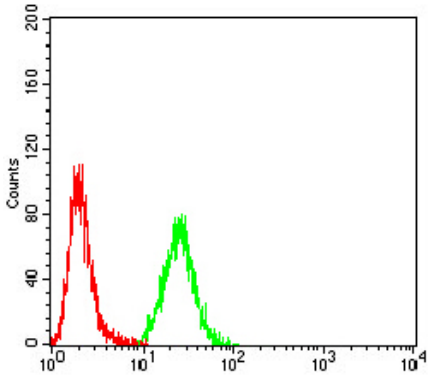
Western blot analysis using KRT10 mAb against human KRT10 (AA: 345-454) recombinant protein. (Expected MW is 38.7 kDa)



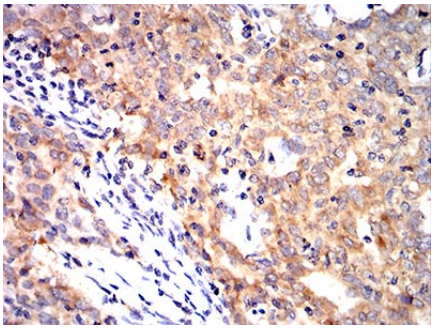
Western blot analysis using KRT10 mAb against HEK293 (1) and KRT10 (AA: 345-454)-hIgGFc transfected HEK293 (2) cell lysate.



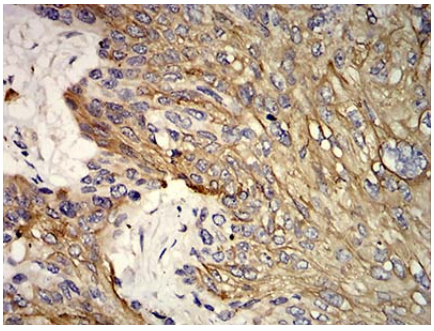
Western blot analysis using KRT10 mouse mAb against A431 (1), C6 (2), COS7 (3), Jurkat (4), NIH/3T3 (5), and HEK293 (6) cell lysate.



Flow cytometric analysis of Hela cells using KRT10 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded breast cancer tissues using KRT10 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using KRT10 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.