

Mouse Monoclonal Antibody to KRT10
Purified Mouse Monoclonal Antibody
Catalog # AO2462a**Specification**

Mouse Monoclonal Antibody to KRT10 - Product Information

Application	E, WB, FC, IHC
Primary Accession	P13645
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	58.8kDa KDa

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

Mouse Monoclonal Antibody to KRT10 - Additional Information

Gene ID 3858

Other Names

BIE; EHK; K10; KPP; BCIE; CK10

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.

Mouse Monoclonal Antibody to KRT10 - Protein Information

Name KRT10

Synonyms KPP

Function

Plays a role in the establishment of the epidermal barrier on plantar skin (By similarity). Involved in the maintenance of cell layer development and keratin filament bundles in suprabasal cells of the epithelium (By similarity).

Cellular Location

Secreted, extracellular space. Cell surface. Cytoplasm

Tissue Location

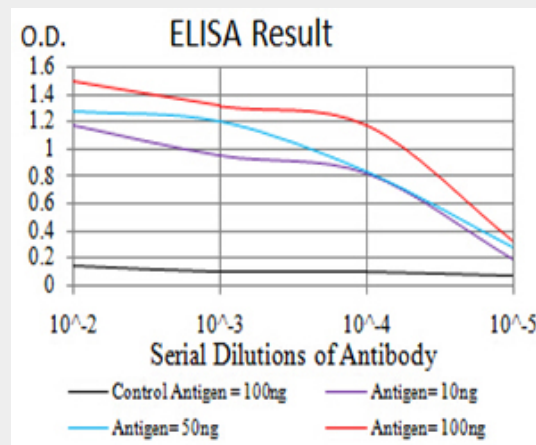
Seen in all suprabasal cell layers including stratum corneum. Expressed on the surface of lung cell lines (PubMed:19627498). Localized on the surface of desquamated nasal epithelial cells (at protein level) (PubMed:12427098)

Mouse Monoclonal Antibody to KRT10 - Protocols

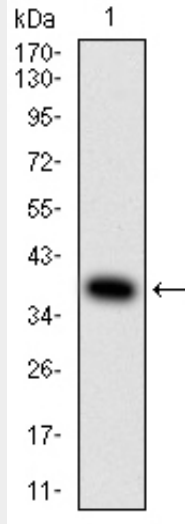
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

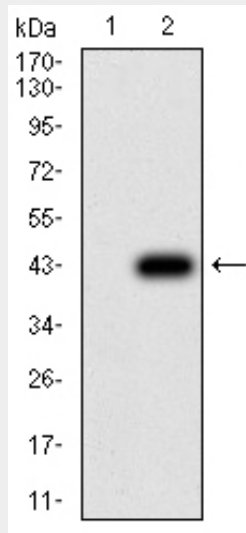
Mouse Monoclonal Antibody to KRT10 - Images



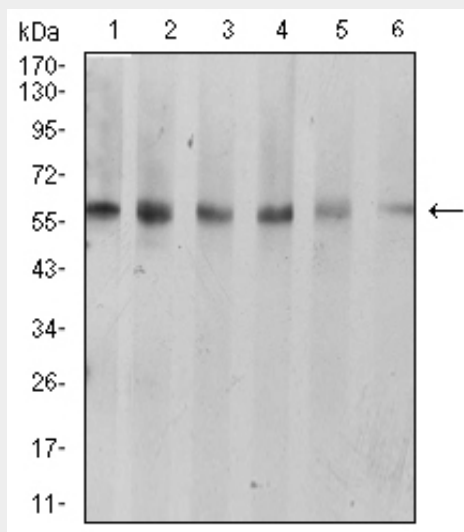
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



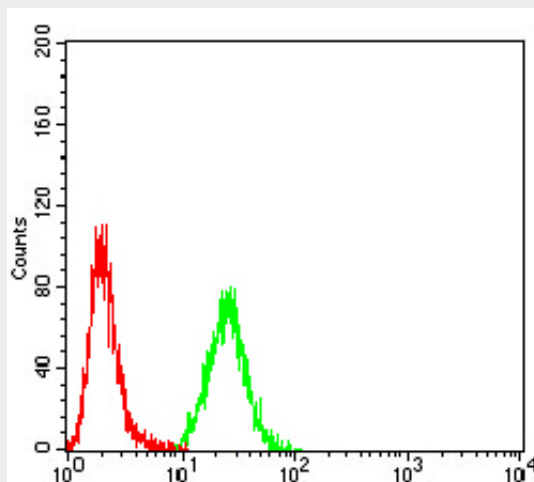
Western blot analysis using KRT10 mAb against human KRT10 (AA: 345-454) recombinant protein. (Expected MW is 38.7 kDa)



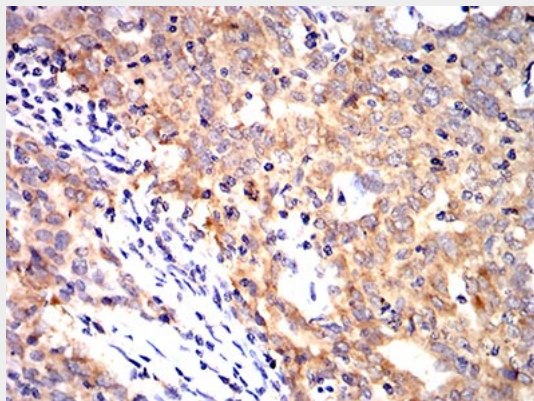
Western blot analysis using KRT10 mAb against HEK293 (1) and KRT10 (AA: 345-454)-hIgGFc transfected HEK293 (2) cell lysate.



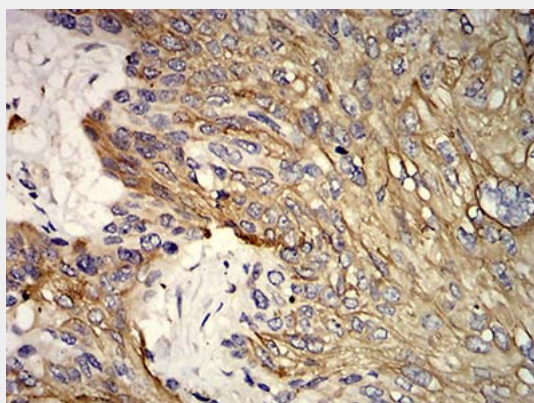
Western blot analysis using KRT10 mouse mAb against A431 (1), C6 (2), COS7 (3), Jurkat (4), NIH/3T3 (5), and HEK293 (6) cell lysate.



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.

Mouse Monoclonal Antibody to KRT10 - References

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