10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Mouse Monoclonal Antibody to KRT10

**Purified Mouse Monoclonal Antibody**
**Catalog # AO2462a**

## Specification

### Mouse Monoclonal Antibody to KRT10 - Product Information

| | |
|---|---|
| Application | **WB, IHC, FC, E** |
| 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

**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.

## 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

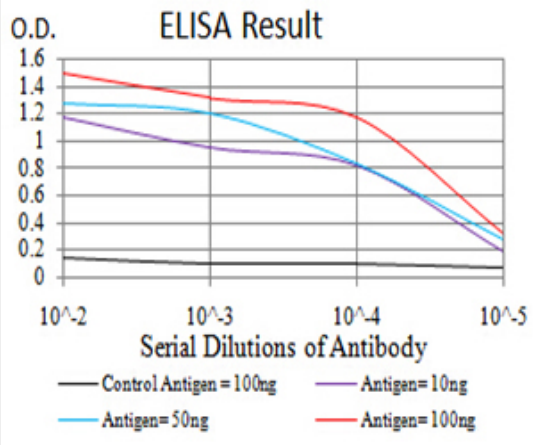
**Tissue Location**
Seen in all suprabasal cell layers including stratum corneum. Expressed on the surface of lung cell lines (PubMed:19627498). Localized on the surface of desquamated nasal epithelial cells (at protein level) (PubMed:12427098)

## Mouse Monoclonal Antibody to KRT10 - Protocols

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

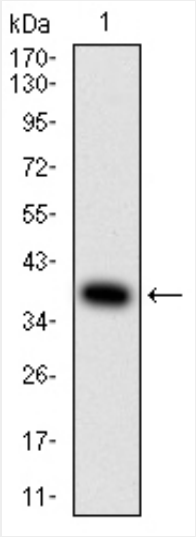
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Mouse Monoclonal Antibody to KRT10 - Images

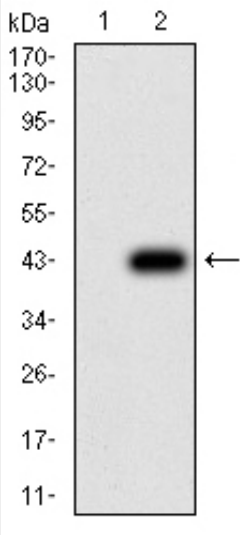



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

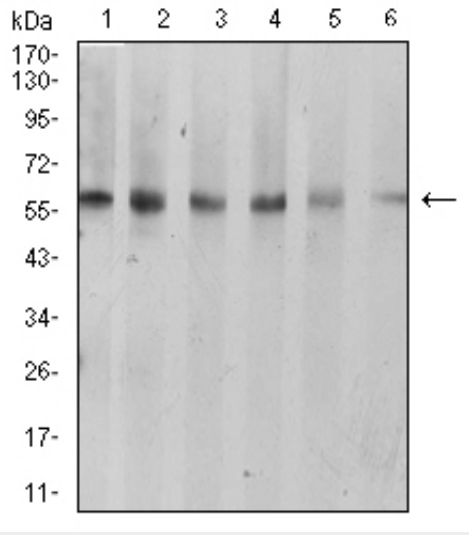
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999




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

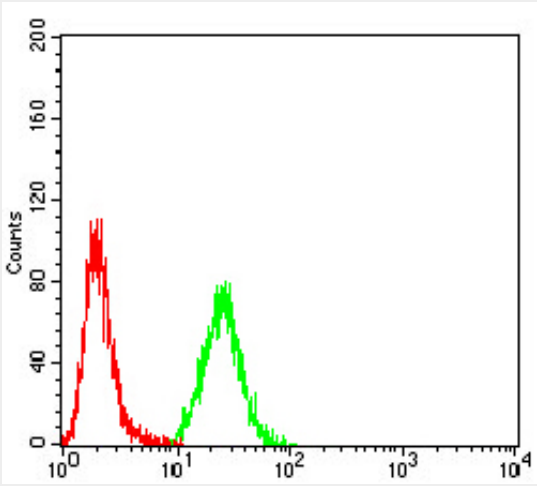



Western blot analysis using KRT10 mAb against HEK293 (1) and KRT10 (AA: 345-454)-hIgGFc transfected HEK293 (2) cell lysate.

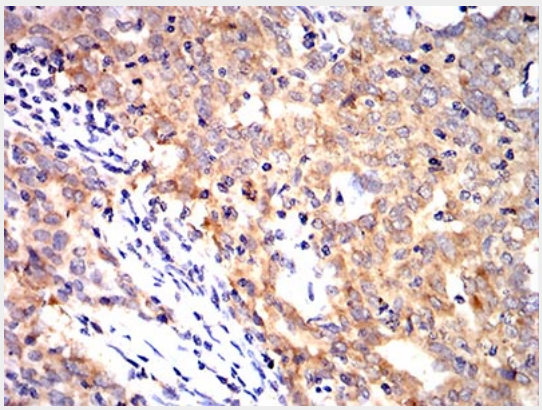


10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

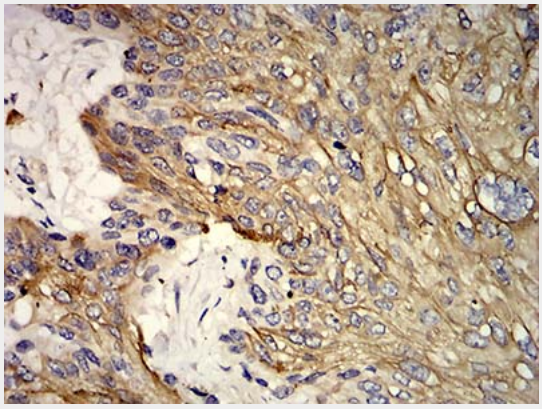
Western blot analysis using KRT10 mouse mAb against A431 (1), C6 (2), COS7 (3), Jurkat (4), NIH/3T3 (5), and HEK293 (6) cell lysate.




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. ;