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

Mouse Monoclonal Antibody to KRT19

Purified Mouse Monoclonal Antibody
Catalog # AO2460a

Specification

Mouse Monoclonal Antibody to KRT19 - Product Information

Application	**E, WB, IHC**
Primary Accession	P08727
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2a**
Calculated MW	**44.1kDa KDa**

Description
The protein encoded by this gene is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21.;

Immunogen
Purified recombinant fragment of human KRT19 (AA: 274-400) 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;

Mouse Monoclonal Antibody to KRT19 - Additional Information

Gene ID 3880

Other Names
K19; CK19; K1CS

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 KRT19 is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Monoclonal Antibody to KRT19 - Protein Information

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

Name KRT19

Function
Involved in the organization of myofibers. Together with KRT8, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.

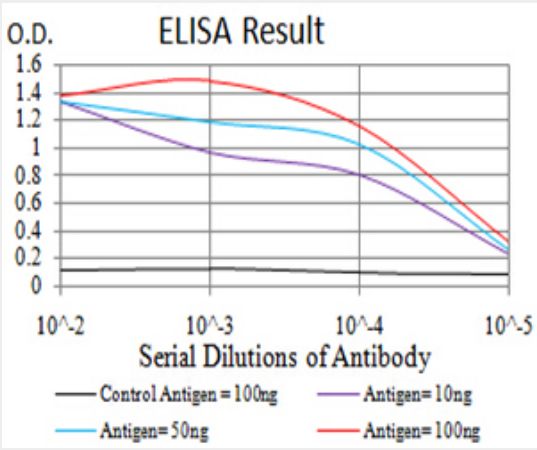
Tissue Location
Expressed in a defined zone of basal keratinocytes in the deep outer root sheath of hair follicles. Also observed in sweat gland and mammary gland ductal and secretory cells, bile ducts, gastrointestinal tract, bladder urothelium, oral epithelia, esophagus, ectocervical epithelium (at protein level). Expressed in epidermal basal cells, in nipple epidermis and a defined region of the hair follicle. Also seen in a subset of vascular wall cells in both the veins and artery of human umbilical cord, and in umbilical cord vascular smooth muscle. Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma in structures that contain dystrophin and spectrin.

Mouse Monoclonal Antibody to KRT19 - Protocols

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

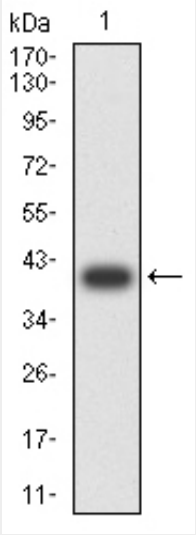
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Monoclonal Antibody to KRT19 - Images

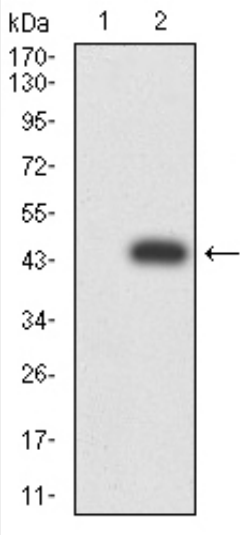


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

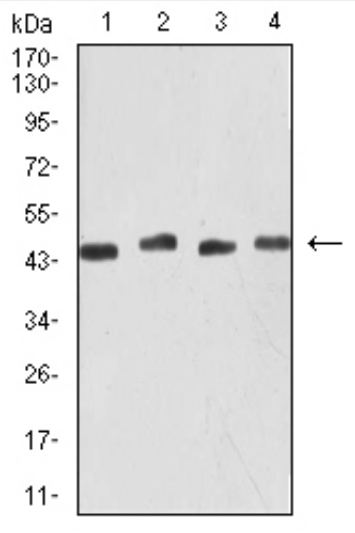
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blot analysis using KRT19 mAb against human KRT19 (AA: 274-400) recombinant protein. (Expected MW is 40 kDa)

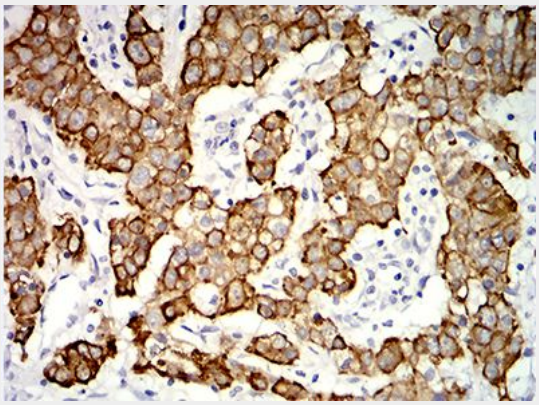


Western blot analysis using KRT19 mAb against HEK293 (1) and KRT19 (AA: 274-400)-hIgGFc transfected HEK293 (2) cell lysate.

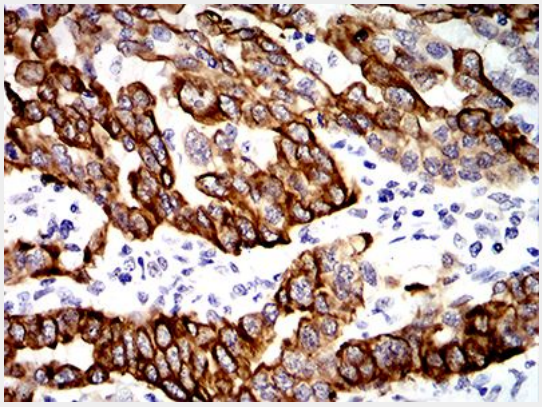


10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Western blot analysis using KRT19 mouse mAb against MCF-7 (1), SW480 (2), SW620 (3), and HCT116 (4) cell lysate.



Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using KRT19 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded endometrial cancer tissues using KRT19 mouse mAb with DAB staining.

Mouse Monoclonal Antibody to KRT19 - References

1.Clin Cancer Res. 2015 Jul 1;21(13):3081-91. ; 2.Gut. 2014 Apr;63(4):674-85. ;