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

Product Information

Application	WB, IHC, E
Primary Accession	P08727
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8H1A8
Isotype	Mouse IgG2a
Calculated MW	44106
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;

Additional Information

Gene ID	3880
Other Names	K19; CK19; K1CS
Dilution	WB~~1:1000 IHC~~1:100~500 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 KRT19 is for research use only and not for use in diagnostic or therapeutic procedures.

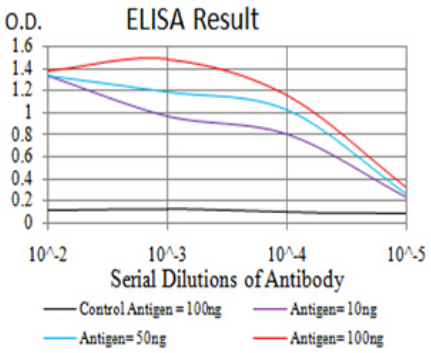
Protein Information

Name	KRT19 (HGNC:6436)
Function	Structural component of intermediate filaments in epithelial cells. Forms intermediate filaments by heterodimerizing with the type II keratin KRT8, providing mechanical integrity to epithelial cells (PubMed:16000376). Integrates into the intermediate filament network of skeletal muscle fibers alongside desmin and KRT18, contributing to force transmission (By similarity). Specifically interacts with the actin-binding domain of dystrophin, helping to link the contractile apparatus to dystrophin at the costameres of striated muscle (PubMed:16000376).
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.

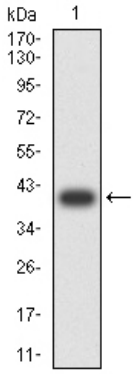
References

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

Images

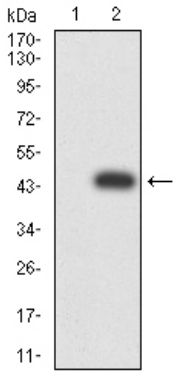


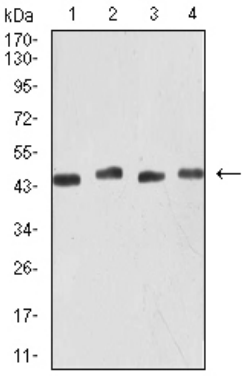
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



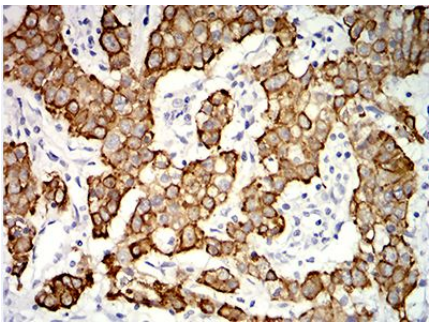
Western blot analysis using KRT19 mAb against human KRT19 (AA: 274-400) recombinant protein. (Expected MW is 40 kDa)

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

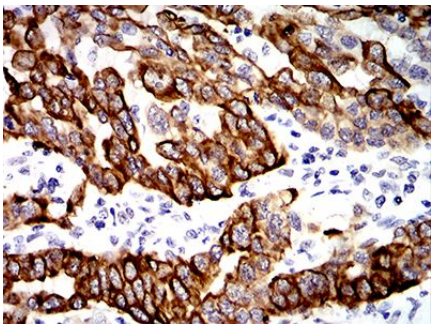




Western blot analysis using KRT19 mouse mAb against MCF-7 (1), SW480 (2), SW620 (3), and HCT116 (4) cell lysate.



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.

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