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KRT19 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8477b

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	P08727
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Rabbit
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Clone Names	979CT14.3.1
Calculated MW	44106

Additional Information

Gene ID	3880
Other Names	Keratin, type I cytoskeletal 19, Cytokeratin-19, CK-19, Keratin-19, K19, KRT19
Target/Specificity	This antibody is generated from a mouse immunized with a recombinant protein of human.
Dilution	WB~~1:4000 IHC-P~~1:100~500 IF~~1:25 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KRT19 Antibody 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.

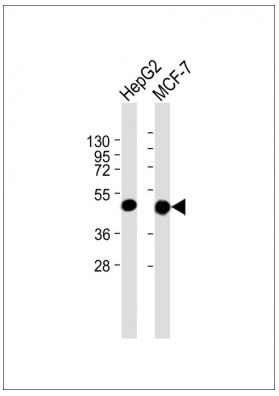
Background

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

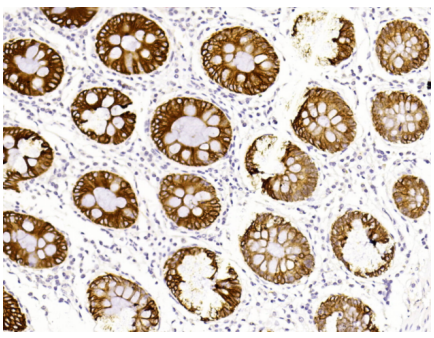
References

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Bader B.L.,et al.Eur. J. Cell Biol. 47:300-319(1988).
Eckert R.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:1114-1118(1988).
Stasiak P.C.,et al.J. Invest. Dermatol. 92:707-716(1989).
Whittock N.V.,et al.Biochem. Biophys. Res. Commun. 267:462-465(2000).

Images

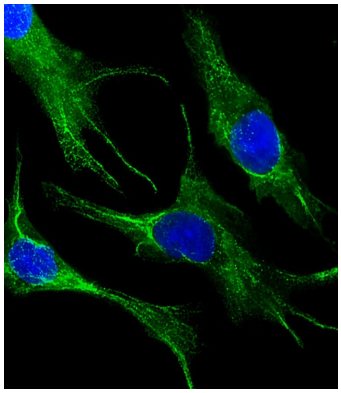


All lanes : Anti-KRT19 at 1:8000 dilution Lane 1: HepG2 whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded Human Colon cancer section using Pink1(Cat#AM8477b). AM8477b was diluted at 1:400 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Immunofluorescent analysis of 4%



paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (human liver hepatocellular carcinoma cell line) cells labeling KRT19 with AM8477b at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-mouse IgG (NA166821) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing intermediate filaments staining on HepG2 cell line. The nuclear counter stain is DAPI (blue).

Citations

- Differential miRNA expression profiles in human keratinocytes in response to protein kinase C inhibitor.

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