Catalog: OM626574

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Cytokeratin 17

Catalog: OM626574

☐ 100 µl

Product profile

Product name	Cytokeratin 17
Antibody Type	Primary Antibodies
Product description	Cytokeratin 17 may play a role in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. Required for the correct growth of hair follicles, in particular f or the persistence of the anagen (growth) state. Modulates the function of TNF-alpha in the specific con text of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway. Involved in tissue repair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "stem cells". May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T-cells and hence causing their proliferation
Immunogen	This antibody is produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to near C-terminal residues of mouse CK-17.

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL.

Target Information

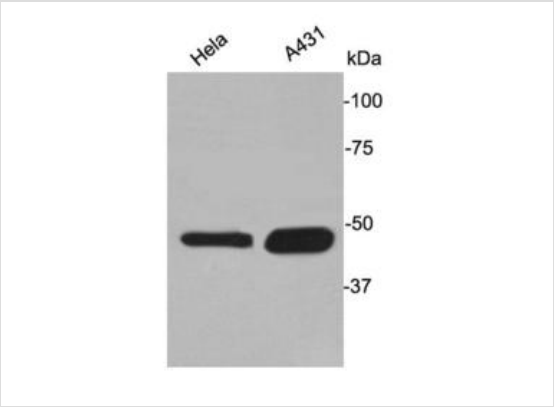
Alternative Names	39.1 antibody CK 17 antibody CK-17 antibody Cytokeratin-17 antibody K17 antibody K1C17_HUMAN anti body Keratin 17 antibody keratin 17 epitope S1 antibody keratin 17 epitope S2 antibody keratin 17 epitop e S4 antibody Keratin 17, type I antibody Keratin antibody Keratin type I cytoskeletal 17 antibody keratin, type i cytoskeletal 17 [version 1] antibody Keratin-17 antibody KRT17 antibody PC antibody PC2 antibod y PCHC1 antibody type I cytoskeletal 17 antibody

Molecular Weight(MW)	48kDa
Cellular Localization	Cytoplasm

Database Links

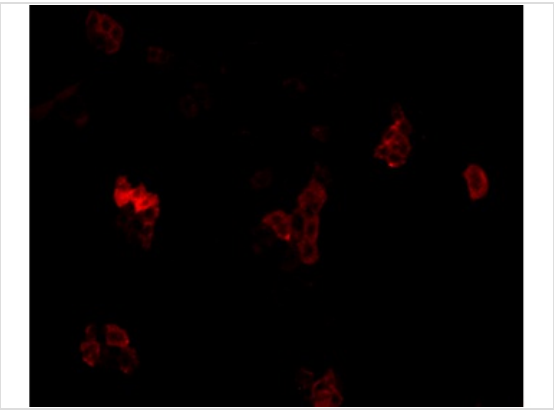
SwissProt ID	Q04695
	Q9QWL7
	Q6IFU8

Application



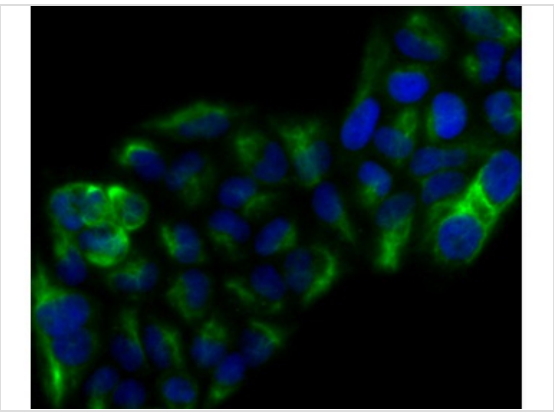
Application

Fig1: Western blot analysis of Cytokeratin 17 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.



Application

Fig2: ICC staining Cytokeratin 17 in A431 cells (red). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with Cytokeratin 17 polyclonal antibody at a dilution of 1:100 for 1 hour at room temperature, washed with PBS. AlexaFluor®488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/100 dilution.

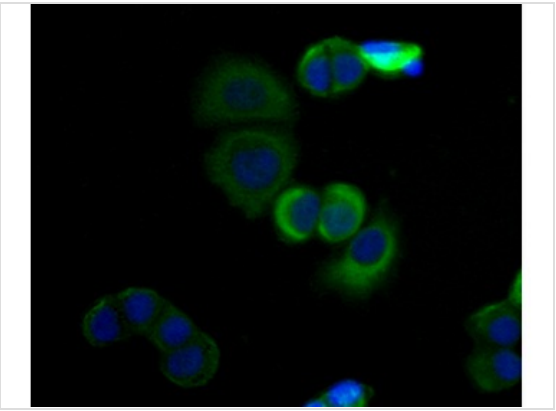


Application

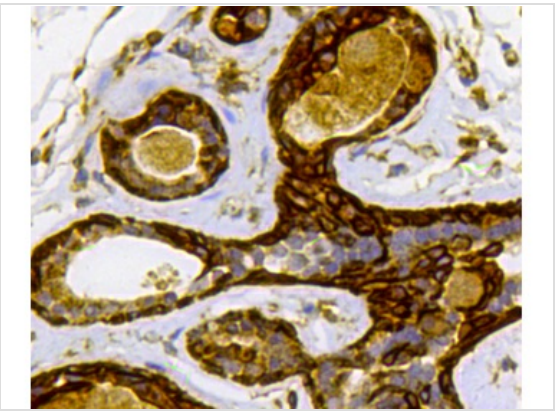
Fig3: ICC staining Cytokeratin 17 in Hela cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with Cytokeratin 17 polyclonal antibody at a dilution of 1:100 for 1 hour at room temperature, washed with PBS. AlexaFluor®488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/100 dilution. The nuclear counter stain is DAPI (blue).

Application

Fig4: ICC staining Cytokeratin 17 in SK-Br-3 cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with Cytokeratin 17 polyclonal antibody at a dilution of 1:100 for 1 hour at room temperature, washed with PBS. AlexaFluor®488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/100 dilution. The nuclear counter stain is

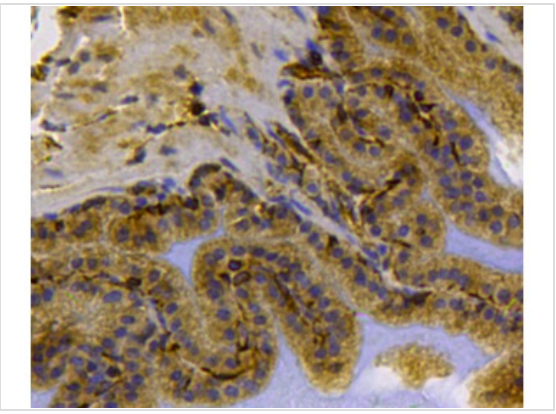


DAPI (blue).



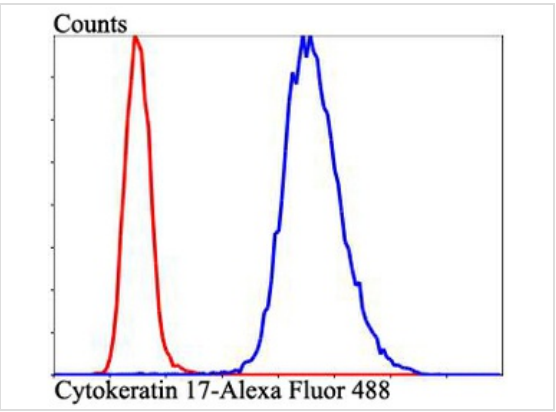
Application

Fig5: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cytokeratin 17 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with 0407-4 at 1/100 dilution, for 30 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chrogen. Counter stained with hematoxylin and mounted with DPX.



Application

Fig6: Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-Cytokeratin 17 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with 0407-4 at 1/100 dilution, for 30 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chrogen. Counter stained with hematoxylin and mounted with DPX.



Application

Fig7: Flow cytometric analysis of Cytokeratin 17 was done on Hela cells. The cells were fixed, permeabilized and stained with Cytokeratin 17 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; blue). After incubation of the primary antibody on room temperature for an hour, the cells was stained with a Alexa Fluor 488-conjugated goat anti-rabbit IgG Secondary antibody at 1/500 dilution for at least 30 minutes.

Positive Control	Hela, A431, SK-Br-3, human breast carcinoma tissue, mouse prostate tissue.
Application Notes	**WB 1:2,000**: **ICC 1:50-1:200**: **IHC 1:50-1:200**: **FC 1:50-1:100**:

Additional Information

Form	Liquid
Storage Instructions	Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.
Storage Buffer	1*TBS (pH7.4), 1%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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