

Rabbit Keratin 17 Polyclonal Antibody | anti-KRT17 antibody

Keratin 17 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322111	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

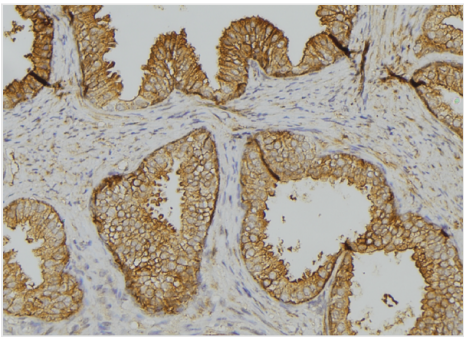
PRODUCT SYNONYMS

Keratin 17; Polyclonal Antibody; Keratin 17 Antibody; 39.1; CK 17; CK-17; Cytokeratin-17; K17; K1C17_HUMAN; keratin 17 epitope S1; keratin 17 epitope S2; keratin 17 epitope S4; type I; Keratin; Keratin type I cytoskeletal 17; keratin; type i cytoskeletal 17 [version 1]; Keratin-17; KRT17; PC; PC2; PCHC1; type I cytoskeletal 17; anti-KRT17 antibody

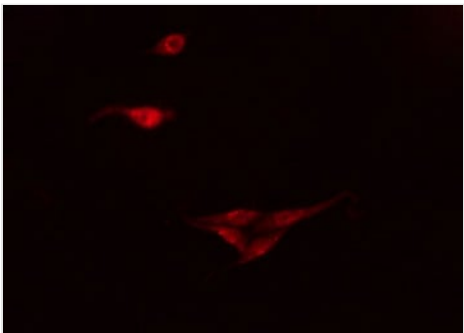
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Keratin 17 antibody detects endogenous levels of total Keratin 17
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	432
Applicable Applications for anti-KRT17 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Keratin 17
Subcellular Location	Cytoplasm.
Tissue Specificity	Expressed in the outer root sheath and medulla region of hair follicle specifically from eyebrow and beard, digital pulp, nail matrix and nail bed epithelium, mucosal stratified squamous epithelia and in basal cells of oral epithelium, palmoplantar epidermis and sweat and mammary glands. Also expressed in myoepithelium of prostate, basal layer of urinary bladder, cambial cells of sebaceous gland and in exocervix (at protein level).
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Zebrafish (82%), Bovine (94%), Horse (94%), Sheep (94%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

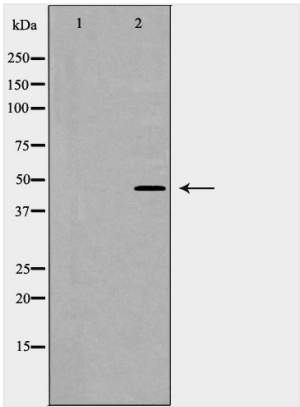
IMAGES



IHC (Immunohistochemistry)
AAA322111 at 1/100 staining Human colon cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA322111 staining LOVO cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of Keratin 17 expression in HuvEc cell extract. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-KRT17 antibody

Description: May play a role in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial stem cells.

Function: Type I keratin involved in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair (By similarity). Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state (By similarity). Modulates the function of TNF-alpha in the specific context of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway (By similarity). 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". Acts as a promoter of epithelial proliferation by acting a regulator of immune response in skin: promotes Th1/Th17-dominated immune environment contributing to the development of basaloid skin tumors (By similarity). 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.

Subunit Structure: Heterodimer of a type I and a type II keratin. KRT17 associates with KRT6 isomers (KRT6A or KRT6B). Interacts with TRADD and SFN (By similarity).

Post-translational Modifications: Phosphorylation at Ser-44 occurs in a growth-and stress-dependent fashion in skin keratinocytes, it has no effect on filament organization.

Similarity: Belongs to the intermediate filament family.

NCBI AND UNIPROT INFORMATION

NCBI GI # 4557701

NCBI GeneID	3872
NCBI Accession #	NP_000413.1
NCBI GenBank Nucleotide #	NM_000422.2
UniProt Accession #	Q04695; Q6IP98; Q8N1P6; A5Z1M9; A5Z1N0; A5Z1N1; A5Z1N2; A6NDV6; A6NKQ2
Molecular Weight	Observed: 48 kDa Predicted: 49 kDa
NCBI Official Full Name	keratin, type I cytoskeletal 17
NCBI Official Synonym Full Names	keratin 17
NCBI Official Symbol	KRT17
NCBI Official Synonym Symbols	PC; K17; PC2; 39.1; CK-17; PCHC1
NCBI Protein Information	keratin, type I cytoskeletal 17
UniProt Protein Name	Keratin, type I cytoskeletal 17
UniProt Gene Name	KRT17
UniProt Synonym Gene Names	CK-17; K17

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/keratin-17-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322111>