

Mouse anti-Human KRT5 Monoclonal Antibody | anti-KRT5 antibody

KRT5 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48201	Mouse	Human	Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

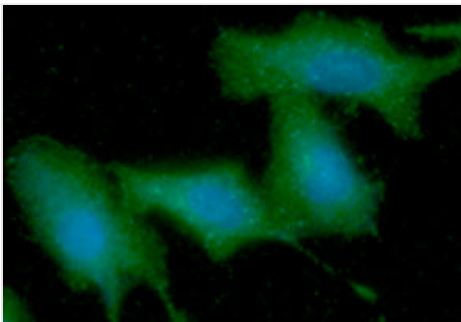
PRODUCT SYNONYMS

KRT5; Monoclonal Antibody; KRT5 antibody; Keratin 5; CK5; DDD; K5; KRT5A; anti-KRT5 antibody

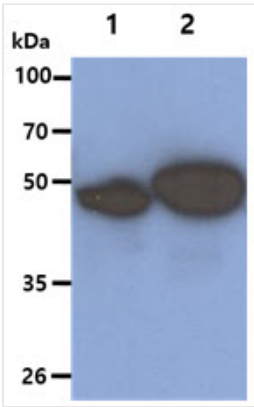
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	AT12C4
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	590
Applicable Applications for anti-KRT5 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human KRT5 (1-590aa) purified from E. coli
Clone Note	Anti-human KRT5 mAb, clone AT12C4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human KRT5 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)
ICC/IF analysis of KRT5 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human KRT5 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)
The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRT5 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : HeLa cell lysate Lane 2. : A431 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-KRT5 antibody	Keratin 5, also known as KRT5, K5, or CK5, dimerizes with keratin 14 and forms the intermediate filaments (IF) that make up the cytoskeleton of basal epithelial cells. This protein is involved in several diseases including epidermolysis bullosa simplex and breast and lung cancers. Keratin 5 (and K14) are expressed primarily in basal keratinocytes in the epidermis, specifically in the stratified epithelium lining the skin and digestive tract. Keratin intermediate filaments make up the cytoskeletal scaffold within epithelial cells, which contributes to the cell architecture and provides the cells with the ability to withstand mechanical, and non-mechanical, stresses. K5/K14 keratin pairs are able to undergo extensive bundling due to the non-helical tail of K15 acting as a weak cross-linker at the intermediate filament surface. This bundling increase the elasticity, and therefore the mechanical resilience, of the intermediate filaments.
Product Categories/Family for anti-KRT5 antibody	Signal Transduction
References	Lersch R., et al. (1988) Molecular and Cellular Biology. 8 (1): 486-493.; Eckert RL., et al. (1988) Dna. 7 (5): 337-345.; Atkinson SD., et al. (2011) J Invest Dermatol. 131 (10): 2079-2086.; van de Rijn M., et al. (2002) Am J Pathol. 161 (6): 1991-1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119395754
NCBI GeneID	3852
NCBI Accession #	NP_000415
NCBI GenBank Nucleotide #	NM_000424.3
UniProt Accession #	P13647; Q6PI71; Q6UBJ0; Q8TA91
Molecular Weight	62,378 Da
NCBI Official Full Name	keratin, type II cytoskeletal 5
NCBI Official Synonym Full Names	keratin 5
NCBI Official Symbol	KRT5
NCBI Official Synonym Symbols	K5; CK5; DDD; DDD1; EBS2; KRT5A
NCBI Protein Information	keratin, type II cytoskeletal 5
UniProt Protein Name	Keratin, type II cytoskeletal 5

UniProt Gene Name	KRT5
UniProt Synonym Gene Names	CK-5; K5

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/krt5-antibody-clone-at12c4-immunohistochemistry-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48201>