

Rabbit Keratin 14 Polyclonal Antibody | anti-KRT14 antibody

Keratin 14 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321216	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Keratin 14; Polyclonal Antibody; Keratin 14 Antibody; CK 14; CK-14; ck14; Cytokeratin 14; Cytokeratin-14; Cytokeratin14; Dowling Meara; EBS3; EBS4; Epidermolysis bullosa simplex; K14; K1C14_HUMAN; Keratin 14 (epidermolysis bullosa simplex; Dowling-Meara; Koebner); Keratin; Keratin type I cytoskeletal 14; type I cytoskeletal 14; Keratin-14; Keratin14; Koebner; Krt 14; Krt14; NFJ; OTTHUMP00000164624; CK 16; CK-16; CK16; Cytokeratin-16; Cytokeratin16; FNEPPK; Focal non epidermolytic palmoplantar keratoderma; K 16; K16; K1C16_HUMAN; K1CP; Keratin 1 type I; Keratin 16; Keratin type I cytoskeletal 16; Keratin-16; Keratin16; KRT 16; Krt16; KRT16A; NEPPK; PC1; type I cytoskeletal 16; anti-KRT14 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Keratin 14 antibody detects endogenous levels of Keratin 14
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	472
Applicable Applications for anti-KRT14 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Keratin 14
Subcellular Location	Cytoplasm. Nucleus. Expressed in both as a filamentous pattern.
Tissue Specificity	Detected in the basal layer, lowered within the more apically located layers specifically in the stratum spinosum, stratum granulosum but is not detected in stratum corneum. Strongly expressed in the outer root sheath of anagen follicles but not in the germinative matrix, inner root sheath or hair. Found in keratinocytes surrounding the club hair during telogen.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

AAA321216 at 1/100 staining human colon cancer tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 ho



WB (Western Blot)

Western blot analysis on NIH-3T3 cell lysate using Keratin 14 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321216 staining sw480 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) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-KRT14 antibody	<p>Description: K14 a type I cytoskeletal keratin. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. There are two types of cytoskeletal and microfibrillar keratin: type I (acidic; 40-55 kDa) [K9 to K20] and type II (neutral to basic; 56-70 kDa) [K1 to K8]. Both a basic and an acidic keratin are required for filament assembly. Generally associates with K5.</p> <p>Note: This description may include information from UniProtKB.</p> <p>Function: The nonhelical tail domain is involved in promoting KRT5-KRT14 filaments to self-organize into large bundles and enhances the mechanical properties involved in resilience of keratin intermediate filaments in vitro.</p> <p>Subunit Structure: Heterotetramer of two type I and two type II keratins. disulfide-linked keratin-14 associates with keratin-5. Interacts with TRADD and with keratin filaments. Associates with other type I keratins. Interacts with EPPK1 (By similarity). Interacts with KLHL24 (PubMed:27798626).</p> <p>Post-translational Modifications: A disulfide bond is formed between rather than within filaments and promotes the formation of a keratin filament cage around the nucleus. Ubiquitinated by the BCR(KLHL24) E3 ubiquitin ligase complex.</p> <p>Similarity: Belongs to the intermediate filament family.</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15431310
NCBI GeneID	3861
NCBI Accession #	NP_000517.2
NCBI GenBank Nucleotide #	NM_000526.4
UniProt Accession #	P02533; Q14715; Q53XY3; Q9BUE3; Q9UBN2; Q9UBN3; Q9UCY4
Molecular Weight	Observed: 52 kDa Predicted: 52 kDa
NCBI Official Full Name	keratin, type I cytoskeletal 14
NCBI Official Synonym Full Names	keratin 14
NCBI Official Symbol	KRT14
NCBI Official Synonym Symbols	K14; NFJ; CK14; EBS3; EBS4
NCBI Protein Information	keratin, type I cytoskeletal 14
UniProt Protein Name	Keratin, type I cytoskeletal 14

UniProt Gene Name	KRT14
UniProt Synonym Gene Names	CK-14; K14

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/polyclonal/keratin-14-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321216>