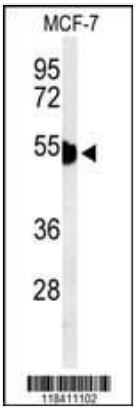
KRT1 Antibody – Rabbit Polyclonal

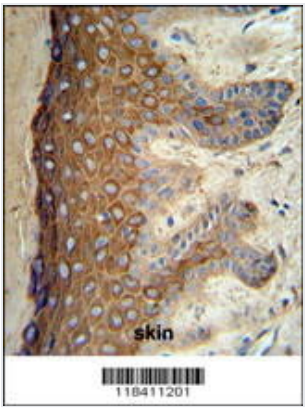
PRODUCT OVERVIEW

Product Name	KRT1, Polyclonal Antibody
Full Product Name	KRT1, ID (KRT1, KRTA, Keratin, type II cytoskeletal 1, 67kD cytokeratin, Cytokeratin-1, Hair alpha protein, Keratin-1, Type-II keratin Kb1) (AP)
Product Gene Name	anti-KRT1 antibody
Product Synonym Names	KRT1; KRTA; Keratin; type II cytoskeletal 1; 67kD cytokeratin; Cytokeratin-1; Hair alpha protein; Keratin-1; Type-II keratin Kb1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Specificity	Recognizes human KRT1
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	66039 MW
OMIM	M98776 Genomic DNA
3D Structure	ModBase 3D Structure for P04264
Immunogen	KRT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 422~451 amino acids from the Central region of human KRT1.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-KRT1 antibody	Antibodies; Cytokeratin
Applications Tested/Suitable for anti-KRT1 antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-KRT1 antibody	FC/FACS: 1:10-50 ELISA: 1:1,000 IHC: 1:50-100 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-KRT1 antibody	KRT1 is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the spinous and granular layers of the epidermis with family member KRT10 and mutations in these genes have been associated with bullous congenital ichthyosiform erythroderma.
Product References and Citations for anti-KRT1 antibody	Labudova, M., et al. J. Virol. 83(16):7842-7849(2009). Barcelos, A.C., et al. J. Cutan. Pathol. 36(6):647-654(2009). Grimberg, G., et al. Br. J. Dermatol. 160(2):446-449(2009).

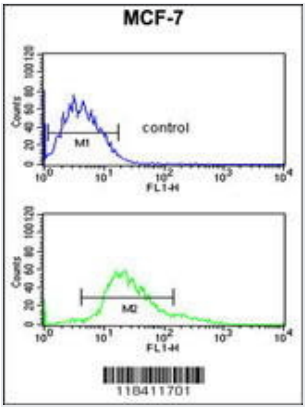
Other Notes	Small volumes of anti-KRT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KRT1 purchase	MBS6314535 is an antibody targeting KRT1. Also known as KRT1, ID (KRT1, KRTA, Keratin, type II cytoskeletal 1, 67kD cytokeratin, Cytokeratin-1, Hair alpha protein, Keratin-1, Type-II keratin Kb1) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-KRT1 antibody
Western blot analysis of KRT1 Antibody (Center) in MCF-7 cell line lysates (35ug/lane). KRT1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-KRT1 antibody
KRT1 Antibody (Center) IHC analysis in formalin fixed and paraffin embedded skin tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KRT1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-KRT1 antibody
KRT1 Antibody (Center) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KRT1. It may not necessarily be applicable to this product.

NCBI GI #	119395750
NCBI GeneID	3848
NCBI Accession #	NP_006112.3
UniProt Primary Accession #	P04264
UniProt Secondary Accession #	P85925; P86104; Q14720; Q6GSJ0; Q9H298; B2RA01
UniProt Related Accession #	P04264
GenBank Nucleotide #	NM_006121.3
NCBI Official Full Name	keratin, type II cytoskeletal 1

NCBI Official Synonym Full Names	keratin 1
NCBI Official Symbol	KRT1
NCBI Official Synonym Symbols	K1; CK1; EHK; EHK1; EPPK; KRT1A; NEPPK
UniProt Protein Name	Keratin, type II cytoskeletal 1
UniProt Synonym Protein Names	67 kDa cytokeratin; Cytokeratin-1; CK-1; Hair alpha protein; Keratin-1; K1; Type-II keratin Kb1
Protein Family	Keratin
UniProt Gene Name	KRT1
UniProt Synonym Gene Names	KRTA; CK-1; K1
NCBI Protein Information	keratin, type II cytoskeletal 1
NCBI Summary for KRT1	The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the spinous and granular layers of the epidermis with family member KRT10 and mutations in these genes have been associated with bullous congenital ichthyosiform erythroderma. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008]
UniProt Comments for KRT1	May regulate the activity of kinases such as PKC and SRC via binding to integrin beta-1 (ITB1) and the receptor of activated protein C kinase 1 (RACK1). In complex with C1QBP is a high affinity receptor for kininogen-1/HMWK.
Research Articles on KRT1	**1.** KRT1 and the specific polymorphism of KRT1 in this Chinese Han population are associated with autoimmune diseases SLE and SSc
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