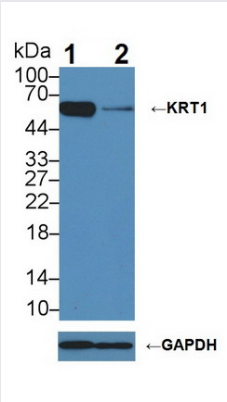
Keratin 1 (KRT1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Keratin 1 (KRT1), Polyclonal Antibody
Full Product Name	HRP-Linked Polyclonal Antibody to Keratin 1 (KRT1)
Product Gene Name	anti-KRT1 antibody
Product Synonym Names	CK1; EHK1; K1; KRT1A; KRT1-A; Cytokeratin 1; Epidermolytic Hyperkeratosis; Keratin, type II cytoskeletal 1; 67 kDa cytokeratin; Type-II keratin Kb1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: KRT1 (MBS2002776) HRP Conjugated Antibody: KRT1 (MBS2043066)
Molecular Weight	66,039 Da
OMIM	M98776 Genomic DNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	KRT1 (Glu487~Arg644)
Conjugation	HRP
Cross Reactivity	Human, Mouse, Rat, Pig
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2002776
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-KRT1 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-KRT1 antibody	MBS2043066 is an antibody targeting KRT1. Also known as HRP-Linked Polyclonal Antibody to Keratin 1 (KRT1). Reactive in Human. Host: Rabbit.
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.



Knockout Validation of anti-KRT1 antibody
Knockout Validation: Lane 1: Wild-type A431 cell lysate;;Lane 2: KRT1 knockout A431 cell lysate;;Predicted MW: 66kDa ;Observed MW: 66kDa;Primary Ab: 3ug/ml Rabbit Anti-Human KRT1 Antibody;Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody;(#MBS2086047)

ADDITIONAL DETAILS

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

NCBI GI #	186772
NCBI GeneID	3848
NCBI Accession #	AAB47721.1
UniProt Secondary Accession #	P85925; P86104; Q14720; Q6GSJ0; Q9H298; B2RA01
UniProt Related Accession #	P04264
NCBI Official Full Name	keratin 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	K1: a type II 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 K10. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 12q13.13 Cellular Component: cytoskeleton; extracellular matrix; extracellular space; membrane; nucleus Molecular Function: carbohydrate binding; protein binding Biological Process: complement activation, lectin pathway; retinal homeostasis Disease: Epidermolytic Hyperkeratosis; Ichthyosis Hystrix, Curth-macklin Type; Ichthyosis, Cyclic, With Epidermolytic Hyperkeratosis; Keratosis Palmoplantaris Striata Iii; Palmoplantar Keratoderma, Epidermolytic; Palmoplantar Keratoderma, Nonepidermolytic
Research Articles on KRT1	**1.** Report genetic/clinical spectrum of KRT1 mutations in keratinopathic ichthyosis.
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