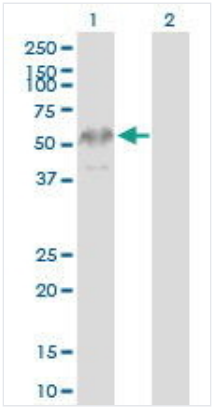
KRT83 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KRT83, Polyclonal Antibody
Full Product Name	KRT83 (Keratin, Type II Cuticular Hb3, Type II Hair Keratin Hb3, Keratin-83, K83, Hair Keratin K2.10, KRTHB3, MGC141663)
Product Gene Name	anti-KRT83 antibody
Product Synonym Names	Anti -KRT83 (Keratin, Type II Cuticular Hb3, Type II Hair Keratin Hb3, Keratin-83, K83, Hair Keratin K2.10, KRTHB3, MGC141663)
Immunogen Sequence	MTCGFNSIGC GFRPGNFSCV SACGPRPSRC CITAAPYRGI SCYRGLTGGF GSHSVCGGFR AGSCGRSFGY RSGGVCGPSP PCITTVSVNE SLLTPLNLEI DPNAQCVKQE EKEQIKSLNS RFAAFIDKVR FLEQQNKLLE TKLQFYQNRE CCQSNLEPLF AGYIETLRRE AECVEADSGR LASELNHVQE VLEGYKKKYE EEVALRATAE NEFVALKKDV DCAYLRKSDL EANVEALIQE IDFLRRLYEE EIRILQSHIS DTSVVVKLDN SRDLNMDCIV AEIKAQYDDI ATRSRAEAES WYRSKCEEMK ATVIRHGETL RRTKEEINEL NRMIQRLTAE VENAKCQNSK LEAAVAQSEQ QGEAALSDAR CKLAELEGAL QKAKQDMACL IREYQEVMNS KLGLDIEIAT YRRLLEGEEQ RLCEGVEAVN VCVSSSRGGV VCGDLCVSGS RPVTGSVCSA PCNGNLVVST GLCKPCGQLN TTCGGGSCGQ GRH
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Recognizes human KRT83.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	54,195 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (52708085..52715182, complement). Location: 12q13
OMIM	158000
3D Structure	ModBase 3D Structure for P78385
Immunogen	Full length human KRT83, aa1-493 (AAH69546.1).
Product Categories/Family for anti-KRT83 antibody	Antibodies; Abs to Keratin; Cytokeratin
Applications Tested/Suitable for anti-KRT83 antibody	Western Blot (WB)
Application Notes for anti-KRT83 antibody	Suitable for use in Western Blot.
Related Product Information for anti-KRT83 antibody	KRT83 is a member of the keratin family. As a type II hair keratin, it is a basic protein which heterodimerizes with type I keratins to form hair and nails. All hair keratins are expressed in the hair follicle; this hair keratin, as well as KRTHB1 and KRTHB6, is found primarily in the hair cortex.

Other Notes	Small volumes of anti-KRT83 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 KRT83 purchase	MBS645745 is an antibody targeting KRT83. Also known as KRT83 (Keratin, Type II Cuticular Hb3, Type II Hair Keratin Hb3, Keratin-83, K83, Hair Keratin K2.10, KRTHB3, MGC141663). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-KRT83 antibody
Western Blot analysis of KRT83 expression in transfected 293T cell line using MBS645745
Lane 1: KRT83 transfected lysate (54.2kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KRT83. It may not necessarily be applicable to this product.

NCBI GI #	169790841
NCBI GeneID	3889
NCBI Accession #	NP_002273.3
UniProt Primary Accession #	P78385
UniProt Secondary Accession #	Q6NT21; Q9NSB3; A1A4S9; B2RC21
UniProt Related Accession #	P78385
GenBank Nucleotide #	NM_002282.3
NCBI Official Full Name	keratin, type II cuticular Hb3
NCBI Official Synonym Full Names	keratin 83
NCBI Official Symbol	KRT83
NCBI Official Synonym Symbols	HB3; Hb-3; KRTHB3
UniProt Protein Name	Keratin, type II cuticular Hb3
UniProt Synonym Protein Names	Hair keratin K2.10; Keratin-83; K83; Type II hair keratin Hb3; Type-II keratin Kb23
Protein Family	Keratin
UniProt Gene Name	KRT83
UniProt Synonym Gene Names	KRTHB3; K83
UniProt Entry Name	KRT83_HUMAN
NCBI Protein Information	keratin, type II cuticular Hb3; K83; hHb3; keratin-83; hair keratin K2.10; type-II keratin Kb23; keratin, hair, basic, 3; hard keratin, type II, 3; type II hair keratin Hb3

NCBI Summary for KRT83	The protein encoded by this gene is a member of the keratin gene family. As a type II hair keratin, it is a basic protein which heterodimerizes with type I keratins to form hair and nails. The type II hair keratins are clustered in a region of chromosome 12q13 and are grouped into two distinct subfamilies based on structure similarity. One subfamily, consisting of KRTHB1, KRTHB3, and KRTHB6, is highly related. The other less-related subfamily includes KRTHB2, KRTHB4, and KRTHB5. All hair keratins are expressed in the hair follicle; this hair keratin, as well as KRTHB1 and KRTHB6, is found primarily in the hair cortex. [provided by RefSeq, Jul 2008]
UniProt Comments for KRT83	Subunit structure: Heterotetramer of two type I and two type II keratins. Tissue specificity: Synthesis begins in the cortex 10-15 cell layers above the apex of the dermal papilla and ends abruptly in the middle of the cortex. Ref.1 Involvement in disease: Monilethrix (MLTRX) [MIM:158000]: Autosomal dominant hair disorder characterized clinically by alopecia and follicular papules. Affected hairs have uniform elliptical nodes of normal thickness and intermittent constrictions, internodes at which the hair easily breaks. Usually only the scalp is involved, but in severe forms, the secondary sexual hair, eyebrows, eyelashes, and nails may also be affected.Note: The disease is caused by mutations affecting the gene represented in this entry. Ref.5 Miscellaneous: There are two types of hair/microfibrillar keratin, I (acidic) and II (neutral to basic). Sequence similarities: Belongs to the intermediate filament family.
Research Articles on KRT83	**1.** A heterozygous missense mutation in hHb3 causing the substitution of a glutamic acid by a lysine at position 407 in the helix termination motif defines this particular residue as a trichocyte keratin mutational hotspot associated with monilethrix.
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