

KRT86 Rabbit pAb

Catalog # AP98038

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O43790
Other Accession	O43790
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53501
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KRT86
Epitope Specificity	401-486/486
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the intermediate filament family.
DISEASE	Defects in KRT86 are a cause of monilethrix (MLTRX) [MIM:158000]. Monilethrix is an 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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 KRTHB3, is found primarily in the hair cortex. Mutations in this gene and KRTHB1 have been observed in patients with a rare dominant hair disease, monilethrix. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	3892
Other Names	HB6; Hb1; K86; KRTHB1; KRTHB6; MNX; NMLIX1; KRT86_HUMAN; KRT86; Hair keratin K2.11; Keratin-86 (K86); Type II hair keratin Hb6; Type-II keratin Kb26; keratin 86; keratin, hair, basic, 6 (monilethrix); keratin 86, type II; hard keratin type II 6

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KRT86 (HGNC:6463)
Synonyms	KRTHB6
Function	Structural component of intermediate filaments in the hair shaft (PubMed: 15744029 , PubMed: 25557232). Forms obligate heterodimers with type I hair keratins, which assemble into keratin intermediate filaments that contribute to the structural integrity and mechanical strength of the hair shaft (PubMed: 15744029 , PubMed: 25557232).
Tissue Location	Expressed in the hair follicle, predominantly in the hair shaft cortex (PubMed:11445569). Synthesis begins slightly higher in the hair shaft than KRT81 and KRT83 and continues much farther up, ending in the keratogeneous zone

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.