10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# KRT83 Rabbit pAb

KRT83 Rabbit pAb
Catalog # AP56440

## Product Information

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|---|---|
| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | P78385 |
| **Reactivity** | Rat, Human, Mouse |
| **Predicted** | Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 54195 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human KRT83 |
| **Epitope Specificity** | 281-380/493 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **DISEASE** | Defects in KRT83 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** | This gene encodes a member of the keratin gene family. This gene is one of multiple type I hair keratin genes that are clustered in a region of chromosome 17q12-q21 and have the same direction of transcription. As a type I hair keratin, the encoded protein is an acidic protein which heterodimerizes with type II keratins to form hair and nails. There are two isoforms of this protein, encoded by two separate genes, keratin 33A and keratin 33B. [provided by RefSeq, May 2012] |

## Additional Information

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| **Gene ID** | 3889 |
| **Other Names** | Keratin, type II cuticular Hb3, Hair keratin K2.10, Keratin-83, K83, Type II hair keratin Hb3, Type-II keratin Kb23, KRT83, KRTHB3 |
| **Dilution** | IHC-P=1:100-500,IHC-F=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. |

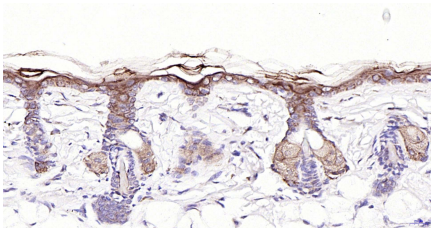
## Protein Information

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| **Name** | KRT83 ( HGNC:6460) |
| **Synonyms** | KRTHB3 |
| **Function** | Structural component of intermediate filaments in the hair cortex (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 in the cortex 10-15 cell layers above the apex of the dermal papilla and ends abruptly in the middle of the cortex. |

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## Images



Paraformaldehyde-fixed, paraffin embedded Rat Skin; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with KRT83 Polyclonal Antibody, Unconjugated (AP56440) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

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