

Recombinant Human KRT81

Cat. No. KRT81-28044TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human KRT81 with N terminal proprietary tag; Predicted MW 48.33 kDa
Species	Human
Source	Wheat Germ
ProteinLength	202 amino acids
Description	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 KRTHB3 and KRTHB6, is found primarily in the hair cortex. Mutations in this gene and KRTHB6 have been observed in patients with a rare dominant hair disease, monilethrix.
Molecular Weight	48.330kDa inclusive of tags
Tissue specificity	Abundantly expressed in the differentiating cortex of growing (anagen) hair. Expression is restricted to the keratinocytes of the hair cortex and is absent from inner root sheath and medulla. Expressed in malignant lymph node tissue in breast carcinoma ti

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the intermediate filament family.

GENE INFORMATION

Gene Name	KRT81 keratin 81 [Homo sapiens]
Official Symbol	KRT81
Synonyms	KRT81; keratin 81; keratin, hair, basic, 1 , KRTHB1; keratin, type II cuticular Hb1; hard keratin type II 1; Hb 1;
Gene ID	3887
mRNA Refseq	NM_002281
Protein Refseq	NP_002272
MIM	602153
Uniprot ID	Q14533
Chromosome	12q13

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Location**Function**

protein binding; structural molecule activity;

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