

Recombinant Full Length Human KRT81 Protein, GST-tagged

Cat. No. KRT81-5836HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human KRTHB1 full-length ORF (AAH21241, 1 a.a. - 202 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
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. [provided by RefSeq]
Molecular Mass	47.96 kDa
AA Sequence	MKATVIRHGETLRRTKEEINELNRMIRQRLTAEVENAKCQNSKLEAAVAQSEQQGEAA LSDARCKLAELEGALQKAKQDMACLIREYQEVMSKLGDLIEIATYRRLLLEGEEQRL CEGIGAVNVVCVSSSRGGVVCGLCVSGSRPVTGVSVCAPCNGNVAVSTGLCAPCG

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QLNTTCGGGSCGVGSCGISSLGVGSCGSSCRKC

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; K81; ghHb1; MLN 137; keratin-81; hair keratin K2.9; type-II keratin Kb21; keratin, hair, basic, 1; hard keratin, type II, 1; type II hair keratin Hb1; metastatic lymph node 137 gene protein; HB1; Hb-1; KRTHB1; MLN137; ghHkb1; hHAKB2-1;

Gene ID

[3887](#)

mRNA Refseq

[NM_002281](#)

Protein Refseq

[NP_002272](#)

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MIM	602153
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UniProt ID	Q14533
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