



# Recombinant Human Keratin, type II cuticular Hb1 (KRT81)

<b>Product Code</b>	CSB-YP618893HU
<b>Abbreviation</b>	KRT81
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q14533
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MTCGSGFGGR AFSCISACGP RPGRCCITAA PYRGISCYRG LTGGFGSHSV CGGFRAGSCG RSFGYRSGGV CGPSPPCITT VSVNESLLTP LNLEIDPNAQ CVKQEEKEQI KSLNSRFAAF IDKVRFLEQQ NKLLETQLQF YQNRECCQSN LEPLFEGYIE TLRREAECVE ADSGRLASEL NHVQEVLEGY KKKYEEEEVSL RATAENEFVA LKKDVEDCAYL RKSDLEANVE ALIQEIDFLR RLYEEEEILIL QSHISDTSVV VKLDNSRDLN MDCIIAEIKA QYDDIVTRSR AEAESWYRSK CEEMKATVIR HGETLRRTKE EINELNRMIIQ RLTA EVENAK CQNSKLEAAV AQSEQQGEAA LSDARCKLAE LEGALQKAKQ DMACLIREYQ EVMNSKLGLD IEIATYRRLLEGEEQRLCEG IGAVNVCVSS SRGGVVCGLD CVSGSRPVTG SVCSAPCNGN VAVSTGLCAP CGQLNTTCGG GSCGVGSCGI SSLGVGSCGS SCRKC
<b>Source</b>	Yeast
<b>Target Names</b>	KRT81
<b>Protein Names</b>	Recommended name: Keratin, type II cuticular Hb1 Alternative name(s): Hair keratin K2.9 Keratin, hair, basic, 1 Keratin-81 Short name= K81 Metastatic lymph node 137 gene protein Short name= MLN 137 Type II hair kerati
<b>Expression Region</b>	1-505
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This protein 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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