



Recombinant Human Keratin, type II cuticular Hb6 (KRT86)

Product Code	CSB-EP012581HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O43790
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MTCGSYCGGR AFSCISACGP RPGRCCITAA PYRGISCYRG LTGGFGSHSV CGGFRAGSCG RSFGYRSGGV CGSPPCITT VSVNESLLTP LNLEIDPNAQ CVKQEEKEQI KSLNSRFAAF IDKVRFLEQQ NKLLETQLQF YQNRECCQSN LEPLFEGYIE TLRREAECVE ADSGRLASEL NHVQEVLEGY KKKYEEEVSL RATAENEFVA LKKDVEDCAYL RKSDLEANVE ALIQEIDFLR RLYEEEEIRVL QSHISDTSVV VKLDNSRDLN MDCIIAEIKA QYDDIVTRSR AEAESWYRSK CEEMKATVIR HGETLRRTKE EINELNRMIIQ RLTA EVENAK CQNSKLEAAV AQSEQQGEAA LSDARCKLAE LEGALQKAKQ DMACLI REYQ EVMNSKLGLD IEIATYRRLLEEGEEQRLCEG VGSVNVCVSS SRGGVVC GDL CASTTAPVVS TRVSSVPSNS NVVVGTTNAC APSARVGVCG GSCKRC
Source	E.coli
Target Names	KRT86
Protein Names	Recommended name: Keratin, type II cuticular Hb6 Alternative name(s): Hair keratin K2.11 Keratin-86 Short name= K86 Type II hair keratin Hb6 Type-II keratin Kb26
Expression Region	1-486
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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 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.
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.

Shelf Life

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.