



# Recombinant Human Keratin, type II cuticular Hb4 (KRT84)

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| <b>Product Code</b>      | CSB-MP868311HU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Abbreviation</b>      | KRT84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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>       | Q9NSB2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen Species</b> | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sequence</b>          | MSCRSYRVSS GHRVGNFSSC SAMTPQNLNR FRANSVSCWS<br>GPGFRGLGSF GSRSVITFGS YSPRIAAVGS RPIHCGVRFG AGCGMGFGDG<br>RGVGLGPRAD SCVGLGFGAG SGIGYGFGGP GFGYRVGGVG VPAAPSITAV<br>TVNKSLLTPL NLEIDPNAQR VKKDEKEQIK TLNNKFASFI DKVRFLEQQN<br>KLLETKWSFL QEQKCIRSNL EPLFESYITN LRRQLEVLVS DQARLQAERN<br>HLQDVLEGFK KKYEEEVVCR ANAENEFVAL KKDVDAAFMN KSDLEANVDT<br>LTQEIDFLKT LYMEEIQLLQ SHISETSVIV KMDNSRDLNL DGIIAEVKAQ<br>YEEVARRSRA DAEAWYQTKY EEMQVTAGQH CDNLRNIRNE INELTRLIQR<br>LKAIEHAKA QRAKLEAAVA EAEQQGEATL SDAKCKLADL ECALQQAQKD<br>MARQLCEYQE LMNAKLGLDI EIATYRRLL EGEESRLCEGV GPNISVSSS<br>RGGLVCGPEP LVAGSTLSRG GVTFSGSSSV CATSGVLASC GPSLGGARVA<br>PATGDLLSTG TRSGSMLISE ACVPSVPCPL PTQGGFSSCS GGRSSSVRFV<br>STTTSCRTKY |
| <b>Source</b>            | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Target Names</b>      | KRT84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Names</b>     | Recommended name: Keratin, type II cuticular Hb4 Alternative name(s): Keratin-84 Short name= K84 Type II hair keratin Hb4 Type-II keratin Kb24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Expression Region</b> | 1-600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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 is contained primarily in the filiform tongue papilla, among other hair keratins.

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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**

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.