



# Recombinant Human Keratin, type II cytoskeletal 1 (KRT1)

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| <b>Product Code</b>      | CSB-EP012503HU-B   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | P04264   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | <p>SRQFSSRSG YRSGGGFSSG SAGIINYQRR TTSSSTRRSG GGGGRFSSCG<br/> GGGGSFGAGG GFGSRSLVNL GGSKISISV ARGGGRGSGF<br/> GGGYGGGGFG GGGFGGGGFG GGGIGGGGFG GFGSGGGGFG<br/> GGGFGGGGYG GYGPPVCPG GIQEVINQS LLQPLNVEID PEIQKVSRE<br/> REIKSLNNQ FASFDKVRF LEQQNQVLQT KWELLQVDT STRTHNLEPY<br/> FESFINLRR RVDQLKSDQS RLDSELKNMQ DMVEDYRNKY EDEINKRTNA<br/> ENEFVTIKKD VDGAYMTKVD LQAKLDNLQQ EIDFLTALYQ AELSQMOTQI<br/> SETNVILSMD NNRSLDLDSI IAEVKAQYED IAQKSKAEAE SLYQSKYEEL<br/> QITAGRHGDS VRNSKIEISE LNRVIQRLRS EIDNVKKQIS NLQQSISDAE<br/> QRGENALKDA KNKLNLEDA LQAKEDLAR LLRDYQELMN TKLALDLEIA<br/> TYRTLLEGEE SRMSGECAPN VSVSVSTSHT TISGGGSRGG<br/> GGGGYGSGGS SYGSGGGSYG SGGGGGGGGRG SYGSGGSSYG<br/> SGGGSYGSGG GGGGHGSYGS GSSSGGYRGG SGGGGGGSSG<br/> GRGSGGGSSG GSIGGRGSSS GGVKSSGGSS SVKVFSTTYS GVTR</p> |
| <b>Source</b>            | E.coli   |
| <b>Target Names</b>      | KRT1   |
| <b>Protein Names</b>     | Recommended name: Keratin, type II cytoskeletal 1 Alternative name(s): 67 kDa cytokeratin Cytokeratin-1 Short name= CK-1 Hair alpha protein Keratin-1 Short name= K1 Type-II keratin Kb1   |
| <b>Expression Region</b> | 2-644  |
| <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 of Mature Protein  |
| <b>Target Details</b>    | This protein is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the spinous and granular layers of the epidermis with family member KRT10 and mutations in these genes have been associated with bullous congenital ichthyosiform erythroderma. The type II cytokeratins are clustered in a region of chromosome  |



12q12-q13.

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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.