

## Recombinant Human KRT6A protein, His-tagged

**Cat. No.** KRT6A-015H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant Human KRT6A full-length protein was expressed in E. coli with His-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | <p>The protein encoded by this gene 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. As many as six of this type II cytokeratin (KRT6) have been identified; the multiplicity of the genes is attributed to successive gene duplication events. The genes are expressed with family members KRT16 and/or KRT17 in the filiform papillae of the tongue, the stratified epithelial lining of oral mucosa and esophagus, the outer root sheath of hair follicles, and the glandular epithelia. This KRT6 gene in particular encodes the most abundant isoform. Mutations in these genes have been associated with pachyonychia congenita. In addition, peptides from the C-terminal region of the protein have antimicrobial activity against bacterial pathogens. The type II cytokeratins are clustered in a region of chromosome 12q12-q13.</p> |
| <b>Form</b>             | 25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 60 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                      |                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 80% as determined by SDS-PAGE and Coomassie blue staining                                         |
| <b>Stability</b>     | Stable for at least 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>       | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                            |
| <b>Concentration</b> | >50 ug/mL as determined by microplate BCA method                                                    |

## GENE INFORMATION

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <b>Gene Name</b>       | KRT6A keratin 6A [ Homo sapiens ]                                |
| <b>Official Symbol</b> | KRT6A                                                            |
| <b>Synonyms</b>        | CK-6C; CK-6E; CK6A; CK6C; CK6D; K6A; K6C; K6D; KRT6C; KRT6D; PC3 |
| <b>Gene ID</b>         | 3853                                                             |
| <b>mRNA Refseq</b>     | NM_005554.3                                                      |
| <b>Protein Refseq</b>  | NP_005545                                                        |
| <b>MIM</b>             | 148041                                                           |
| <b>UniProt ID</b>      | P02538                                                           |

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