

Recombinant Human KRT6A protein, His & S-tagged

Cat. No. KRT6A-7954H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human KRT6A aa. (Glu163~Leu468 (Accession # P02538)) fused with N-terminal His & S tag was produced in E. coli cells.

Species Human

Source E.coli

ProteinLength Glu163~Leu468

Description

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.

Form Freeze-dried powder

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Molecular Mass	41 kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.3.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	KRT6A keratin 6A [Homo sapiens (human)]
Official Symbol	KRT6A
Synonyms	KRT6A; keratin 6A; K6A; K6C; K6D; PC3; CK6A; CK6C; CK6D; CK-6C; CK-6E;

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KRT6C; KRT6D; keratin, type II cytoskeletal 6C; cytokeratin 6A; cytokeratin 6C; cytokeratin 6D; keratin 6A, , type II; keratin 6A, type II; keratin, epidermal type II, K6A; keratin, type II cytoskeletal 6A; type-II keratin Kb6

Gene ID [3853](#)

mRNA Refseq [NM_005554.3](#)

Protein Refseq [NP_005545.1](#)

UniProt ID [P02538](#)

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