

Recombinant Human KRT1

Cat. No. KRT1-26824TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human KRT1 protein with an N terminal proprietary tag; predicted mwt: 37.73 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
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. 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.
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	The source of this protein is neonatal foreskin. The 67-kDa type II keratins are expressed in terminally differentiating epidermis.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	HGDSVRNSKIEISELNRVIQRLRSEIDNVKKQISNLQQSI SDAEQRGENALKDAKNKL NDLEDALQQAKEDLARLLRDYQ ELMNTKLALDLEIATYRTLLEGEESRMSG
Sequence Similarities	Belongs to the intermediate filament family.

GENE INFORMATION

Gene Name	KRT1 keratin 1 [Homo sapiens]
Official Symbol	KRT1
Synonyms	KRT1; keratin 1; EHK1, epidermolytic hyperkeratosis 1; keratin, type II cytoskeletal 1; KRT1A;
Gene ID	3848
mRNA Refseq	NM_006121
Protein Refseq	NP_006112
MIM	139350
Uniprot ID	P04264
Chromosome Location	12q13.13

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Pathway	Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem;
Function	protein binding; receptor activity; structural constituent of cytoskeleton; sugar binding;