

Datasheet for ABIN7565138
KRT17 Protein (AA 1-433) (His tag)



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Overview

Quantity:	1 mg
Target:	KRT17
Protein Characteristics:	AA 1-433
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KRT17 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Krt17 Protein expressed in mammalian cells.
Sequence:	<p>MTTTIRQFTS SSSIKGSSGL GGGSSRTSCR LSGSLGAGSC RLGSASGLGS ALGSNSYSSC YSFGTGSYG GNFGGVDGLL AGGEKATMQN LNDRLASYLD KVRALEEANT ELEVKIRDWY QKQAPGPARD YSAYYHTIED LKNKILVATV DNASILLQID NARLAADDFR TKFETEQLR MSVEADINGL RRVLDELTLA RADLEMQIEN LKEELAYLKK NHEEEMNALR GQVGGEINVE MDAAPGVDLS RILSEMRDQY EKMAEKNRKD AEDWFFSKTE ELNREVATNS ELVQSGKSEI SELRRTMQAL EIELQSQLSM KASLEGLAE TENRYCVQLS QIQGLIGSVE EQLAQLRCHEM EQQNQEYKIL LDVKTRLEQE IATYRRLLEG EDAHLTQYKP KEPVTTRQVR TIVEEVQDGK VISSREQVHQ TTR Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

KRT17

Alternative Name:

Krt17 ([KRT17 Products](#))

Background:

Keratin, type I cytoskeletal 17 (Cytokeratin-17) (CK-17) (Keratin-17) (K17),FUNCTION: Type I keratin involved in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair (PubMed:14714564, PubMed:16702408). Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state (PubMed:16702408). Modulates the function of TNF-alpha in the specific context of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway (PubMed:16710422). Involved in tissue repair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial 'stem cells'. Acts as a promoter of epithelial proliferation by acting a regulator of immune response in skin: promotes Th1/Th17-dominated immune environment contributing to the development of basaloid skin tumors (PubMed:20871598). May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T-cells and hence causing their proliferation.

Target Details

{ECO:0000269|PubMed:14714564, ECO:0000269|PubMed:16702408, ECO:0000269|PubMed:16710422, ECO:0000269|PubMed:20871598, ECO:0000269|PubMed:9786956}.

Molecular Weight: 48.2 kDa

UniProt: [Q9QWL7](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months