

Datasheet for ABIN7557548  
**RNF145 Protein (AA 1-663) (His tag)**



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## Overview

Quantity:	1 mg
Target:	RNF145
Protein Characteristics:	AA 1-663
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF145 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Rnf145 Protein expressed in mammalian cells.
Sequence:	<p>MAAKEKLEAV LNVALRVPSI MLLDVLYRWD VSSFFQQIQR SSLNNNPLFQ YKYLALNMHY VGYILSVLL TLPRQHLVQL YLYFVTALLL YAGHQISRDI VRSELESAYE GPMYLEPLSM NRFTTALIGQ LVVCTLCSCV MKTKQIWLFS AHMLPLLARL CLVPLETIVI INKFAMIFTG LEVLYFLGSN LLVPYNLAKS AYRELVQVVE VYGLLALGMS LWNQLVVPVL FMVFWLVLFA LQIYSYFSTR DQPASRERLL FLFLTSIAEC CSTPYSLLGL VFTVSFVALG VLTLCCKFYLQ GYRAFMNDPA MNRGMTEGVT LLILAVQTGL IELQVHRAF LLSILFIV ASILQSMLEI ADPIVLALGA SRDKSLWKHF RAVSLCLFLL VFPAYMAYMI CQFFHMDFWL LIISSSILT SLQVLGTLFI YVLFMVEEFR KEPVENMDDV IYYVNGTYRL LEFVVALCVV AYGVSSETIFG EWTVMGSMII FIHSYYNVWL RAQLGWKSFL LRRDAVNKIK SLPVATQEQL EKHNDICAIC YQDMKSAVIT PCSHFFHAGC LKKWLYVQDT CPLCHCHLKN SSQPLGLGTE AAPQPPAGAE QNIVLQEGPE PPDHESPPGT GTQEGSGDSS EHINRGASQ EGAADAGEGP QIPEGEVCPV ESA</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences with the</b></p>

## Product Details

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**expression system, a different complexity of the protein could make another tag necessary.**

**In case you have a special request, please contact us.**

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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.

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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.

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

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Grade: custom-made

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## Target Details

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Target: RNF145

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Alternative Name: Rnf145 ([RNF145 Products](#))

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Background: RING finger protein 145 (EC 2.3.2.27),FUNCTION: E3 ubiquitin ligase that catalyzes the direct transfer of ubiquitin from E2 ubiquitin-conjugating enzyme to a specific substrate. In response to bacterial infection, negatively regulates the phagocyte oxidative burst by controlling the turnover of the NADPH oxidase complex subunits. Promotes monoubiquitination of CYBA and 'Lys-48'-linked polyubiquitination and degradation of CYBB NADPH oxidase catalytic subunits, both essential for the generation of antimicrobial reactive oxygen species (PubMed:26194095). Involved in the maintenance of cholesterol homeostasis. In response to high sterol concentrations ubiquitinates HMGCR, a rate-limiting enzyme in cholesterol biosynthesis, and targets it for degradation. The interaction with INSIG1 is required for this function

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## Target Details

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(PubMed:29374057). In addition, triggers ubiquitination of SCAP, likely inhibiting its transport to the Golgi apparatus and the subsequent processing/maturation of SREBPF2, ultimately down-regulating cholesterol biosynthesis (PubMed:29068315). {ECO:0000269|PubMed:26194095, ECO:0000269|PubMed:29068315, ECO:0000269|PubMed:29374057}.

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Molecular Weight: 74.6 kDa

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UniProt: [Q5SWK7](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months