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Datasheet for ABIN7551460
RNF14 Protein (AA 1-474) (His tag)

Overview

Quantity:	1 mg
Target:	RNF14
Protein Characteristics:	AA 1-474
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF14 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat RNF14 Protein expressed in mammalian cells.
Sequence:	<p>MSSEDREAQE DELLALASIY DGDEFKRAES VQGGETRIYL DLPQNFKIFV SGNSNECLQN SGFEY TICFL PPLVLNFELP PDYPSSSPPS FTLSGKWLSP TQLSALCKHL DNLWEEHRGS VVLFAWMQFL KEETLAYLNI VSPFELKIGS QKKVQRRTAQ ASPNTELDG GAAGSDVDQE EIVDERAVQD VESLSNLIQE ILDFDQAQIQI KCFNSKFLFC SICFCEKLGSECMYFLECRH VYCKACLKDY FEIQIRDGQV QCLNCPEPKC PSVATPGQVK ELVEAELFAR YDRLLLQSSL DLMADVVCYCP RPCCQLPVMQ EPGCTMGICS SCNFAFCTLC RLTYHGVSPC KVTAEKLM DL RNEYLQADEA NKRLLDQRYG KRVIQKALEE MESKEWLEKN SKSCPCCGTP IEKLDGCNKM TCTGCMQYFC WICMGSLSRA NPYKHFNDPG SPCFNRLFYA VDVEDDIWED EVED 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>

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, Western Blot

Grade:

custom-made

Target Details

Target:

RNF14

Alternative Name:

RNF14 ([RNF14 Products](#))

Background:

E3 ubiquitin-protein ligase RNF14 (EC 2.3.2.31) (Androgen receptor-associated protein 54) (HFB30) (RING finger protein 14),FUNCTION: E3 ubiquitin-protein ligase that plays a key role in the RNF14-RNF25 translation quality control pathway, a pathway that takes place when a ribosome has stalled during translation, and which promotes ubiquitination and degradation of translation factors on stalled ribosomes (PubMed:36638793, PubMed:37651229, PubMed:37951215, PubMed:37951216). Recruited to stalled ribosomes by the ribosome collision sensor GCN1 and mediates 'Lys-6'-linked ubiquitination of target proteins, leading to their degradation (PubMed:36638793, PubMed:37651229, PubMed:37951215, PubMed:37951216). Mediates ubiquitination of EEF1A1/eEF1A and ETF1/eRF1 translation factors on stalled ribosomes, leading to their degradation (PubMed:36638793, PubMed:37651229). Also catalyzes ubiquitination of ribosomal proteins RPL0, RPL1, RPL12, RPS13 and RPS17 (PubMed:36638793). Specifically required to resolve RNA-protein cross-links caused by reactive aldehydes, which trigger translation stress by stalling ribosomes: acts by

Target Details

catalying 'Lys-6'-linked ubiquitination of RNA-protein cross-links, leading to their removal by the ATP-dependent unfoldase VCP and subsequent degradation by the proteasome (PubMed:37951215, PubMed:37951216). Independently of its function in the response to stalled ribosomes, acts as a regulator of transcription in Wnt signaling via its interaction with TCF transcription factors (TCF7/TCF1, TCF7L1/TCF3 and TCF7L2/TCF4) (PubMed:23449499). May also play a role as a coactivator for androgen- and, to a lesser extent, progesterone-dependent transcription (PubMed:19345326). {ECO:0000269|PubMed:19345326, ECO:0000269|PubMed:23449499, ECO:0000269|PubMed:36638793, ECO:0000269|PubMed:37651229, ECO:0000269|PubMed:37951215, ECO:0000269|PubMed:37951216}.

Molecular Weight: 53.8 kDa

UniProt: [Q9UBS8](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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