Datasheet for ABIN7558944

TRIM14 Protein (AA 1-440) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	TRIM14
Protein Characteristics:	AA 1-440
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM14 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Trim14 Protein expressed in mammalien cells.
Sequence:	MASETTEARA PFQPDGAYGW RCPEHSERPA ELFCRRCGRC VCALCPVLGA HRGHPVGLAE EEAVRVQKLI QDCLECLATK KRQHADNIAH LEDAGERLKV YADSSKAWLT QKFTELRLLL DEEEVLAKKF IDKSTQLTLQ VYREQAETCG KQIEVMDDFS TRVWGIGQEP NPVQLLQAYI ATKTEMGQQM SPSELSHPVP LSFEPVKNFF KEFVEAIGNT LQTPMDTRLK ENINCQLSNS SSTKPGALLK TSPSPERALF LKYARTPTLD PDTMHARLRL SPDGLTVRCS LLGRLGPRPA PRFDALRQVL GRDGFAAGRH YWEVDVQEAG VGWWVGAAYP SLRRRGASAA ARLGCNRESW CVKRYDLEYW AFHDGQRSRL RPRRDPHRLG VFLDYEAGIL AFYDVAGGMS HLHTFHAAFQ EPLYPALRLW EGPISIPRLP **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.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien 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:	TRIM14
Alternative Name:	Trim14 (TRIM14 Products)
Background:	Tripartite motif-containing protein 14 (PU.1-binding protein),FUNCTION: Plays a role in the innate immune defense against viruses. Facilitates the type I IFN response by interacting with MAVS at the outer mitochondria membrane and thereby recruiting NF-kappa-B essential modulator IKBKG/NEMO to the MAVS signalosome, leading to the activation of both the IFN regulatory factor 3/IRF3 and NF-kappa-B pathways. Positively regulates the CGAS-induced type I interferon signaling pathway by stabilizing CGAS and inhibiting its autophagic degradation (PubMed:27666593). Inhibits the transcriptional activity of SPI1 in a dose-dependent manner (PubMed:14592421). Inhibits also OPTN-mediated selective autophagic degradation of KDM4D and thereby negatively regulates H3K9me2 and H3K9me3. Mechanistically, recruits USP14 to remove the 'Lys-63'-linked ubiquitination of KDM4D, preventing its recognition by OPTN and subsequent degradation (PubMed:35145029). {ECO:0000250|UniProtKB:Q14142, ECO:0000269|PubMed:14592421, ECO:0000269|PubMed:27666593, ECO:0000269|PubMed:35145029}., FUNCTION: Plays an essential role in the innate immune defense against viruses and bacteria. Facilitates the type I IFN response by interacting with

Target Details

	MAVS at the outer mitochondria membrane and thereby recruiting NF-kappa-B essential modulator IKBKG/NEMO to the MAVS signalosome, leading to the activation of both the IFN regulatory factor 3/IRF3 and NF-kappa-B pathways. Positively regulates the CGAS-induced type I interferon signaling pathway by stabilizing CGAS and inhibiting its autophagic degradation (PubMed:27666593). Acts as a scaffold between TBK1 and STAT3 to promote phosphorylation of STAT3 and resolve interferon-stimulated gene (ISG) expression. Inhibits the transcriptional activity of SPI1 in a dose-dependent manner (PubMed:14592421). {ECO:0000250|UniProtKB:Q14142, ECO:0000269|PubMed:14592421, ECO:0000269|PubMed:27666593}.
Molecular Weight:	49.6 kDa
UniProt:	Q8BVW3

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