Datasheet for ABIN7544736

TRIM14 Protein (AA 1-442) (His tag)

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Overview

Quantity:	1 mg
Target:	TRIM14
Protein Characteristics:	AA 1-442
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM14 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TRIM14 Protein expressed in mammalian cells.
Sequence:	MAGAATGSRT PGRSELVEGC GWRCPEHGDR VAELFCRRCR RCVCALCPVL GAHRGHPVGL ALEAAVHVQK LSQECLKQLA IKKQQHIDNI TQIEDATEKL KANAESSKTW LKGKFTELRL LLDEEEALAK KFIDKNTQLT LQVYREQADS CREQLDIMND LSNRVWSISQ EPDPVQRLQA YTATEQEMQQ QMSLGELCHP VPLSFEPVKS FFKGLVEAVE STLQTPLDIR LKESINCQLS DPSSTKPGTL LKTSPSPERS LLLKYARTPT LDPDTMHARL RLSADRLTVR CGLLGSLGPV PVLRFDALWQ VLARDCFATG RHYWEVDVQE AGAGWWVGAA YASLRRRGAS AAARLGCNRQ SWCLKRYDLE YWAFHDGQRS RLRPRDDLDR LGVFLDYEAG VLAFYDVTGG MSHLHTFRAT FQEPLYPALR LWEGAISIPR LP **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.**
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:	TRIM14
Alternative Name:	TRIM14 (TRIM14 Products)
Background:	Tripartite motif-containing protein 14,FUNCTION: Plays an essential role in the innate immune defense against viruses and bacteria (PubMed:30150992, PubMed:32404352). Promotes the 'Lys-48'-linked ubiquitination and subsequent degradation of hepatitis C virus NS5A leading to the inhibition of viral replication (PubMed:27578425). Plays also a role in the inhibition of ebolavirus infection by enhancing IFN-beta and NF-kappa-B activation after binding to the viral protein NP (PubMed:37562033). 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 (PubMed:24379373). 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 (PubMed:32404352). Inhibits the transcriptional activity of SPI1 in a dose-dependent manner

Target Details

	(By similarity). 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:Q8BVW3, ECO:0000269|PubMed:24379373, ECO:0000269|PubMed:27578425, ECO:0000269|PubMed:27666593, ECO:0000269|PubMed:29053956, ECO:0000269|PubMed:30150992, ECO:0000269|PubMed:32404352, ECO:0000269|PubMed:35145029, ECO:0000269|PubMed:37562033}.
Molecular Weight:	49.8 kDa
UniProt:	Q14142

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