Datasheet for ABIN7555852

TRIM56 Protein (AA 1-755) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	TRIM56
Protein Characteristics:	AA 1-755
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM56 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat TRIM56 Protein expressed in mammalien cells.
Sequence:	MVSHGSSPSL LEALSSDFLA CKICLEQLRA PKTLPCLHTY CQDCLAQLAD GGRVRCPECR ETVPVPPEGV ASFKTNFFVN GLLDLVKARA CGDLRAGKPA CALCPLVGGT STGGPATARC LDCADDLCQA CADGHRCTRQ THTHRVVDLV GYRAGWYDEE ARERQAAQCP QHPGEALRFL CQPCSQLLCR ECRLDPHLDH PCLPLAEAVR ARRPGLEGLL AGVDNNLVEL EAARRVEKEA LARLREQAAR VGTQVEEAAE GVLRALLAQK QEVLGQLRAH VEAAEEAARE RLAELEGREQ VARAAAAFAR RVLSLGREAE ILSLEGAIAQ RLRQLQGCPW APGPAPCLLP QLELHPGLLD KNCHLLRLSF EEQQPQKDGG KDGAGTQGGE ESQSRREDEP KTERQGGVQP QAGDGAQTPK EEKAQTTREE GAQTLEEDRA QTPHEDGGPQ PHRGGRPNKK KKFKGRLKSI SREPSPALGP NLDGSGLLPR PIFYCSFPTR MPGDKRSPRI TGLCPFGPRE ILVADEQNRA LKRFSLNGDY KGTVPVPEGC SPCSVAALQS AVAFSASARL YLINPNGEVQ WRRALSLSQA SHAVAALPSG DRVAVSVAGH VEVYNMEGSL ATRFIPGGKA SRGLRALVFL TTSPQGHFVG SDWQQNSVVI

Product Details

	CDGLGQVVGE YKGPGLHGCQ PGSVSVDKKG YIFLTLREVN KVVILDPKGS LLGDFLTAYH GLEKPRVTTM VDGRYLVVSL SNGTIHIFRV RSPDS **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: • 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:	TRIM56
Alternative Name:	TRIM56 (TRIM56 Products)
Background:	E3 ubiquitin-protein ligase TRIM56 (EC 2.3.2.27) (RING finger protein 109) (Tripartite motif-containing protein 56),FUNCTION: E3 ubiquitin-protein ligase that plays a key role in innate antiviral immunity by mediating ubiquitination of CGAS and STING1 (PubMed:21289118, PubMed:29426904). In response to pathogen- and host-derived double-stranded DNA (dsDNA), targets STING1 to 'Lys-63'-linked ubiquitination, thereby promoting its homodimerization, a step required for the production of type I interferon IFN-beta (By similarity). Also mediate monoubiquitination of CGAS, thereby promoting CGAS oligomerization and subsequent activation (PubMed:29426904). Promotes also TNFalpha-induced NF-kappa-B signaling by

Target Details

	mediating 'Lys-63'-linked ubiquitination TAK1, leading to enhanced interaction between TAK1 and CHUK/IKKalpha (PubMed:35952808). Independently of its E3 ubiquitin ligase activity, positive regulator of TLR3 signaling. Potentiates extracellular double stranded RNA (dsRNA)-induced expression of IFNB1 and interferon-stimulated genes ISG15, IFIT1/ISG56, CXCL10, OASL and CCL5/RANTES (PubMed:22948160). Promotes establishment of an antiviral state by TLR3 ligand and TLR3-mediated chemokine induction following infection by hepatitis C virus (PubMed:22948160). Acts as a restriction factor of Zika virus through direct interaction with the viral RNA via its C-terminal region (PubMed:31251739). {ECO:0000250|UniProtKB:Q80VI1, ECO:0000269|PubMed:21289118, ECO:0000269|PubMed:22948160, ECO:0000269|PubMed:29426904, ECO:0000269|PubMed:31251739, ECO:0000269|PubMed:35952808}.
Molecular Weight:	81.5 kDa
UniProt:	Q9BRZ2

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