Datasheet for ABIN7544748

TRIM7 Protein (AA 1-511) (His tag)

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Overview

Quantity:	1 mg
Target:	TRIM7
Protein Characteristics:	AA 1-511
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TRIM7 Protein expressed in mammalian cells.
Sequence:	MAAVGPRTGP GTGAEALALA AELQGEATCS ICLELFREPV SVECGHSFCR ACIGRCWERP GAGSVGAATR APPFPLPCPQ CREPARPSQL RPNRQLAAVA TLLRRFSLPA AAPGEHGSQA AAARAAAARC GQHGEPFKLY CQDDGRAICV VCDRAREHRE HAVLPLDEAV QEAKELLESR LRVLKKELED CEVFRSTEKK ESKELLKQMA AEQEKVGAEF QALRAFLVEQ EGRLLGRLEE LSREVAQKQN ENLAQLGVEI TQLSKLSSQI QETAQKPDLD FLQEFKSTLS RCSNVPGPKP TTVSSEMKNK VWNVSLKTFV LKGMLKKFKE DLRGELEKEE KVELTLDPDT ANPRLILSLD LKGVRLGERA QDLPNHPCRF DTNTRVLASC GFSSGRHHWE VEVGSKDGWA FGVARESVRR KGLTPFTPEE GVWALQLNGG QYWAVTSPER SPLSCGHLSR VRVALDLEVG AVSFYAVEDM RHLYTFRVNF QERVFPLFSV CSTGTYLRIW P **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.**

Product Details

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.
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:	TRIM7
Alternative Name:	TRIM7 (TRIM7 Products)
Background:	E3 ubiquitin-protein ligase TRIM7 (EC 2.3.2.27) (Glycogenin-interacting protein) (RING finger protein 90) (Tripartite motif-containing protein 7),FUNCTION: E3 ubiquitin-protein ligase that have both tumor-promoting and tumor-suppressing activities and functions in several biological processes including innate immunity, regulation of ferroptosis as well as cell proliferation and migration (PubMed:25851810, PubMed:32853985, PubMed:34062120). Acts as an antiviral effector against multiple viruses by targeting specific viral proteins for ubiquitination and degradation including norovirus NTPase protein or SARS-CoV-2 NSP5 and NSP8 proteins (PubMed:34062120, PubMed:35982226). Mechanistically, recognizes the C-terminal glutamine-containing motif usually generated by viral proteases that process the polyproteins and trigger their ubiquitination and subsequent degradation (PubMed:35982226, PubMed:35867826, PubMed:35893676). Mediates 'Lys-63'-linked polyubiquitination and stabilization of the JUN

Target Details

	coactivator RNF187 in response to growth factor signaling via the MEK/ERK pathway, thereby regulating JUN transactivation and cellular proliferation (PubMed:25851810). Promotes the TLR4-mediated signaling activation through its E3 ligase domain leading to production of pro-inflammatory cytokines and type I interferon (By similarity). Also plays a negative role in the regulation of exogenous cytosolic DNA virus-triggered immune response. Mechanistically, enhances the 'Lys-48'-linked ubiquitination of STING1 leading to its proteasome-dependent degradation (PubMed:32126128). Mediates the ubiquitination of the SIN3-HDAC chromatin remodeling complex component BRMS1 (PubMed:32853985). Modulates NCOA4-mediated ferritinophagy and ferroptosis in glioblastoma cells by ubiquitinating NCOA4, leading to its degradation (PubMed:36067704). {ECO:0000250|UniProtKB:Q923T7, ECO:0000269|PubMed:25851810, ECO:0000269|PubMed:32126128, ECO:0000269|PubMed:32853985, ECO:0000269|PubMed:34062120, ECO:0000269|PubMed:35867826, ECO:0000269|PubMed:35893676, ECO:0000269|PubMed:35982226, ECO:0000269|PubMed:36067704}., FUNCTION: (Microbial infection) Promotes Zika virus replication by mediating envelope protein E ubiquitination. {ECO:0000269|PubMed:32641828}.
Molecular Weight:	56.6 kDa
UniProt:	Q9C029

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