Datasheet for ABIN7544623

TRIM22 Protein (AA 1-498) (His tag)

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Overview

Quantity:	1 mg
Target:	TRIM22
Protein Characteristics:	AA 1-498
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM22 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TRIM22 Protein expressed in mammalian cells.
Sequence:	MDFSVKVDIE KEVTCPICLE LLTEPLSLDC GHSFCQACIT AKIKESVIIS RGESSCPVCQ TRFQPGNLRP NRHLANIVER VKEVKMSPQE GQKRDVCEHH GKKLQIFCKE DGKVICWVCE LSQEHQGHQT FRINEVVKEC QEKLQVALQR LIKEDQEAEK LEDDIRQERT AWKNYIQIER QKILKGFNEM RVILDNEEQR ELQKLEEGEV NVLDNLAAAT DQLVQQRQDA STLISDLQRR LRGSSVEMLQ DVIDVMKRSE SWTLKKPKSV SKKLKSVFRV PDLSGMLQVL KELTDVQYYW VDVMLNPGSA TSNVAISVDQ RQVKTVRTCT FKNSNPCDFS AFGVFGCQYF SSGKYYWEVD VSGKIAWILG VHSKISSLNK RKSSGFAFDP SVNYSKVYSR YRPQYGYWVI GLQNTCEYNA FEDSSSSDPK VLTLFMAVPP CRIGVFLDYE AGIVSFFNVT NHGALIYKFS GCRFSRPAYP YFNPWNCLVP MTVCPPSS **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

Product Details

	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:	TRIM22
Alternative Name:	TRIM22 (TRIM22 Products)
Background:	E3 ubiquitin-protein ligase TRIM22 (EC 2.3.2.27) (50 kDa-stimulated trans-acting factor) (RING finger protein 94) (RING-type E3 ubiquitin transferase TRIM22) (Staf-50) (Tripartite motif-containing protein 22),FUNCTION: Interferon-induced E3 ubiquitin ligase that plays important roles in innate and adaptive immunity (PubMed:25683609, PubMed:35777501). Restricts the replication of many viruses including HIV-1, encephalomyocarditis virus (EMCV), hepatitis B virus (HBV), hepatitis C virus (HCV) or Zika virus (ZIKV) (PubMed:25683609, PubMed:35777501, PubMed:36042495). Mechanistically, negatively regulates HCV replication by promoting ubiquitination and subsequent degradation of viral NS5A (PubMed:25683609). Acts also by promoting the degradation of Zika virus NS1 and NS3 proteins through proteasomal degradation (PubMed:36042495). Acts as a suppressor of basal HIV-1 LTR-driven transcription by preventing Sp1 binding to the HIV-1 promoter (PubMed:26683615). Plays also a role in antiviral immunity by co-regulating together with NT5C2 the RIGI/NF-kappa-B pathway by

Target Details

	promoting 'Lys-63'-linked ubiquitination of RIGI, while NT5C2 is responsible for 'Lys-48'-linked ubiquitination of RIGI (PubMed:36159777). Participates in adaptive immunity by suppressing the amount of MHC class II protein in a negative feedback manner in order to limit the extent of MHC class II induction (PubMed:35777501). {ECO:0000269|PubMed:18389079, ECO:0000269|PubMed:18656448, ECO:0000269|PubMed:19218198, ECO:0000269|PubMed:19585648, ECO:0000269|PubMed:25683609, ECO:0000269|PubMed:26683615, ECO:0000269|PubMed:35777501, ECO:0000269|PubMed:36042495, ECO:0000269|PubMed:36159777}.
Molecular Weight:	56.9 kDa
UniProt:	Q8IYM9

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