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Datasheet for ABIN7555817
TRAF4 Protein (AA 1-470) (His tag)

Overview

Quantity:	1 mg
Target:	TRAF4
Protein Characteristics:	AA 1-470
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRAF4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TRAF4 Protein expressed in mammalian cells.
Sequence:	<p>MPGFDYKFLE KPKRRLLCPL CGKPMREPVQ VSTCGHRFCD TCLQEFLSEG VFKCPEDQLP LDYAKIYPDP ELEVQVLGLP IRCIHSEEGC RWSGPLRHLQ GHLNTCSFNV IPCPNRCPMK LSRRDLPAHL QHDCPKRRLK CEFCGDFSG EAYESHEGMC PQESVYCENK CGARMMRRL AQHATSECPK RTQPCTYCTK EFVFDTIQSH QYQCPRLPVA CPNQCGVGTV AREDLPGHLK DSCNTALVLC PFKDSGCKHR CPKLAMARHV EESVKPHLAM MCALVSRQRQ ELQELRRELE ELSVGSDGVL IWKIGSYGRR LQEAKAKPNL ECFSPAFYTH KYGYKLQVSA FLNGNGSGEG THLSLYIRVL PGAFDNLLEW PFARRVTFSL LDQSDPGLAK PQHVTETFHP DPNWKNFQKP GTWRGSLDES SLGFGYPKFI SHQDIRKRN YVRDDAVFIRA AVELPRKILS Sequence without tag.</p> <p>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.</p>
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:

TRAF4

Alternative Name:

TRAF4 ([TRAF4 Products](#))

Background:

TNF receptor-associated factor 4 (EC 2.3.2.27) (Cysteine-rich domain associated with RING and Traf domains protein 1) (Metastatic lymph node gene 62 protein) (MLN 62) (RING finger protein 83),FUNCTION: Adapter protein with E3 ligase activity that is involved in many diverse biological processes including cell proliferation, migration, differentiation, DNA repair, platelet activation or apoptosis (PubMed:30352854, PubMed:31076633, PubMed:32268273, PubMed:33991522). Promotes EGFR-mediated signaling by facilitating the dimerization of EGFR and downstream AKT activation thereby promoting cell proliferation (PubMed:30352854). Ubiquitinates SMURF2 through 'Lys-48'-linked ubiquitin chain leading to SMURF2 degradation through the proteasome and subsequently osteogenic differentiation (PubMed:31076633). Promotes 'Lys-63'-mediated ubiquitination of CHK1 which in turn activates cell cycle arrest and activation of DNA repair (PubMed:32357935). In addition, promotes an atypical 'Lys-29'-linked ubiquitination at the C-terminal end of IRS1 which is crucial for insulin-like growth factor (IGF) signal transduction

Target Details

(PubMed:33991522). Regulates activation of NF-kappa-B in response to signaling through Toll-like receptors. Required for normal skeleton development, and for normal development of the respiratory tract (By similarity). Required for activation of RPS6KB1 in response to TNF signaling. Modulates TRAF6 functions. Inhibits adipogenic differentiation by activating pyruvate kinase PKM activity and subsequently the beta-catenin signaling pathway (PubMed:32268273). {ECO:0000250, ECO:0000269|PubMed:12023963, ECO:0000269|PubMed:12801526, ECO:0000269|PubMed:16052631, ECO:0000269|PubMed:16157600, ECO:0000269|PubMed:18953416, ECO:0000269|PubMed:19937093, ECO:0000269|PubMed:30352854, ECO:0000269|PubMed:31076633, ECO:0000269|PubMed:32268273, ECO:0000269|PubMed:32357935, ECO:0000269|PubMed:33991522}.

Molecular Weight: 53.5 kDa

UniProt: [Q9BUZ4](#)

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