

Datasheet for ABIN7544585  
**TRAIP Protein (AA 1-469) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TRAIP
Protein Characteristics:	AA 1-469
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRAIP protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat TRAIP Protein expressed in mammalian cells.
Sequence:	<p>MPIRALCTIC SDFFDHSRDV AAIHCGHTFH LQCLIQWFET APSRTCPCR IQVGKRTIIN KLFFDLAQEE ENVLDAEFLK NELDNVRAQL SQKDKEKRDS QVIIDTLRDT LEERNATVVS LQQALGKAEM LCSTLKKQMK YLEQQQDETK QAQEEARRLR SKMKTMEQIE LLLQSQRPEV EEMIRDMGVG QSAVEQLAVY CVSLKKEYEN LKEARKASGE VADKLRKDLF SRSRKLQTVY SELDQAKLEL KSAQKDLQSA DKEIMSLKKK LTMLQETLNL PPVASETVDR LVLESPAPVE VNLKLRPSF RDDIDLNATF DVDTPPARPS SSQHGYEKL CLEKSHSPIQ DVPKICKGPG RKESQLSLGG QSCAGEPDEE LVGAFPIFVR NAILGQKQPK RPRSESSCSK DVVRTGFDGL GGRTKFIQPT DTMIRPLPV KPKTKVKQRV RVKTVPSLFQ AKLDTFLLWS <b>Sequence without tag.</b></p> <p><b>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.</b></p>

## Product Details

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

TRAIP

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### Alternative Name:

TRAIP ([TRAIP Products](#))

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### Background:

E3 ubiquitin-protein ligase TRAIP (EC 2.3.2.27) (RING finger protein 206) (TRAF-interacting protein),FUNCTION: E3 ubiquitin ligase required to protect genome stability in response to replication stress (PubMed:25335891, PubMed:26781088, PubMed:27462463, PubMed:26711499, PubMed:26595769, PubMed:31545170). Acts as a key regulator of interstrand cross-link repair, which takes place when both strands of duplex DNA are covalently tethered together, thereby blocking replication and transcription (By similarity). Controls the choice between the two pathways of replication-coupled interstrand-cross-link repair by mediating ubiquitination of MCM7 subunit of the CMG helicase complex (By similarity). Short ubiquitin chains on MCM7 promote recruitment of DNA glycosylase NEIL3 (By similarity). If the interstrand cross-link cannot be cleaved by NEIL3, the ubiquitin chains continue to grow on MCM7, promoting the unloading of the CMG helicase complex by the VCP/p97 ATPase, enabling the Fanconi anemia DNA repair pathway (By similarity). Only catalyzes ubiquitination of MCM7 when forks converge (By similarity). Also involved in the repair of covalent DNA-

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protein cross-links (DPCs) during DNA synthesis: promotes ubiquitination of DPCs, leading to their degradation by the proteasome (By similarity). Has also been proposed to play a role in promoting translesion synthesis by mediating the assembly of 'Lys-63'-linked poly-ubiquitin chains on the Y-family polymerase POLN in order to facilitate bypass of DNA lesions and preserve genomic integrity (PubMed:24553286). The function in translesion synthesis is however controversial (PubMed:26595769). Acts as a regulator of the spindle assembly checkpoint (PubMed:25335891). Also acts as a negative regulator of innate immune signaling by inhibiting activation of NF-kappa-B mediated by TNF (PubMed:22945920). Negatively regulates TLR3/4- and RIG-I-mediated IRF3 activation and subsequent IFNB1 production and cellular antiviral response by promoting 'Lys-48'-linked polyubiquitination of TNK1 leading to its proteasomal degradation (PubMed:22945920). {ECO:0000250|UniProtKB:Q6NRV0, ECO:0000269|PubMed:22945920, ECO:0000269|PubMed:24553286, ECO:0000269|PubMed:25335891, ECO:0000269|PubMed:26595769, ECO:0000269|PubMed:26711499, ECO:0000269|PubMed:26781088, ECO:0000269|PubMed:27462463, ECO:0000269|PubMed:31545170}.

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Molecular Weight: 53.3 kDa

UniProt: [Q9BWF2](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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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