

Datasheet for ABIN7555818

## TRAK1 Protein (AA 1-953) (His tag)



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### Overview

Quantity:	1 mg
Target:	TRAK1
Protein Characteristics:	AA 1-953
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRAK1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat TRAK1 Protein expressed in mammalian cells.
Sequence:	<p>MALVFQFGQP VRAQPLPGLC HGKLIRTNAC DVCNSTDLPE VEIISLLEEQ LPHYKLRADT</p> <p>IYGYDHDDWL HTPLISPDAN IDLTTEQIEE TLKYFLLCAE RVGQMTKTYN DIDAVTRLLE</p> <p>EKERDLELAA RIGQSLLKKN KTLTERNELL EEQVEHIREE VSQLRHELMS KDELLQFYTS</p> <p>AAEESPEPV CSTPLKRNES SSSVQNYFHL DSLQKKLKDLE ENNVLRSE ASQLKTETIT</p> <p>YEEKEQQLVN DCVKELRDAN VQIASISEEL AKKTEDAARQ QEEITHLLSQ IVDLQKKAKA</p> <p>CAVENEELVQ HLGAAKDAQR QLTAELRELE DKYAECEMML HEAQEELKNL RNKTMPTTTS</p> <p>RRYHSLGLFP MDSLAAEIEG TMRKELQLEE AESPDITHQK RVFETVRNIN QVVKQRSLTP</p> <p>SPMNIPGSNQ SSAMNSLLSS CVSTPRSSFY GSDIGNVVLD NKTNSIILET EAADLGNDER</p> <p>SKKPGTPGTP GSHDLETALR RLSLRRENYL SERRFFEEEQ ERKLQELAEK GELRSGSLTP</p> <p>TESIMSLGTH SRFSEFTGFS GMSFSSRSYL PEKLQIVKPL EGSATLHHWQ QLAQPHLGGI</p> <p>LDPRPGVVTG GFRTLDVDLD EVYCLNDFEE DDTGDHISLP RLATSTPVQH PETAHHPGK</p>

## Product Details

CMSQTNSTFT FTTCRILHPS DELTRVTPSL NSAPTPACGS TSHLKSTPVA TPCTPRRLSL  
AESFTNTRES TTTMSTSLGL VWLLKERGIS AAVYDPQSWD RAGRGSLLHS YTPKMAVIPS  
TPNNSPMQTP TSSPPSFEFK CTSPPYDNFL ASKPASSILR EVREKNVRSS ESQTDVSVSN  
LNLVDKVRRF GVAKVVNSGR AHVPTLTEEQ GPLLCGPPGP APALVPRGLV PEGPLRCPT  
VTSAIGGLQL NSGIRRNRSF PTMVGSSMQM KAPVTLTSGI LMGAKLSKQT SLR **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 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, Western Blot

### Grade:

custom-made

## Target Details

### Target:

TRAK1

### Alternative Name:

TRAK1 ([TRAK1 Products](#))

### Background:

Trafficking kinesin-binding protein 1 (106 kDa O-GlcNAc transferase-interacting protein) (Protein Milton),FUNCTION: Involved in the regulation of endosome-to-lysosome trafficking, including endocytic trafficking of EGF-EGFR complexes and GABA-A receptors (PubMed:18675823). Involved in mitochondrial motility. When O-glycosylated, abolishes mitochondrial motility. Crucial for recruiting OGT to the mitochondrial surface of neuronal

## Target Details

	processes (PubMed:24995978). TRAK1 and RHOT form an essential protein complex that links KIF5 to mitochondria for light chain-independent, anterograde transport of mitochondria (By similarity). {ECO:0000250 UniProtKB:Q960V3, ECO:0000269 PubMed:18675823, ECO:0000269 PubMed:24995978}.
Molecular Weight:	106.0 kDa
UniProt:	<a href="#">Q9UPV9</a>

## 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