

Datasheet for ABIN7544500
TOM1 Protein (AA 1-492) (His tag)



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Overview

Quantity:	1 mg
Target:	TOM1
Protein Characteristics:	AA 1-492
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TOM1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat TOM1 Protein expressed in mammalian cells.
Sequence:	<p>MDFLLGNPFS SPVGQRIEKA TDGSLQSEDW ALNMEICDII NETEEGPKDA LRAVKKRIVG NKNFHEVMLA LTVLETCVKN CGHRFHVLVA SQDFVESVLV RTILPKNNPP TIVHDKVLNL IQSWADAFRS SPDLTGVVTI YEDLRRKGLE FPMTDLMLLS PIHTPQRTVF NSETQSGQDS VGTDSSQQED SGQHAAPLPA PPILSGDTPI APTPEQIGKL RSELEMVSGN VRRVMSEMLTE LVPTQAEPAD LELLQELNRT CRAMQQRVLE LIPQIANEQL TEELLIVNDN LNNVFLRHER FERFRTGQTT KAPSEAEPAA DLIDMGPDPA ATGNLSSQLA GMNLGSSSVR AGLQSLEASG RLEDEFDMFA LTRGSSLADQ RKEVKYEAPQ ATDGLAGALD ARQQTGAIP VTQAACLMEDI EQWLSTDVGN DAEEPKGVTS EEFDKFLEER AKAADRLPNL SSPSAEGPPG PPSGPAPRKK TQEKDDMLF AL 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.</p>

Product Details

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:

TOM1

Alternative Name:

TOM1 ([TOM1 Products](#))

Background:

Target of Myb1 membrane trafficking protein (Target of Myb protein 1),FUNCTION: Adapter protein that plays a role in the intracellular membrane trafficking of ubiquitinated proteins, thereby participating in autophagy, ubiquitination-dependent signaling and receptor recycling pathways (PubMed:14563850, PubMed:15047686, PubMed:23023224, PubMed:25588840, PubMed:26320582, PubMed:31371777). Acts as a MYO6/Myosin VI adapter protein that targets MYO6 to endocytic structures (PubMed:23023224). Together with MYO6, required for autophagosomal delivery of endocytic cargo, the maturation of autophagosomes and their fusion with lysosomes (PubMed:23023224). MYO6 links TOM1 with autophagy receptors, such as TAX1BP1, CALCOCO2/NDP52 and OPTN (PubMed:31371777). Binds to polyubiquitinated proteins via its GAT domain (PubMed:14563850). In a complex with TOLLIP, recruits ubiquitin-conjugated proteins onto early endosomes (PubMed:15047686). The Tom1-Tollip complex may regulate endosomal trafficking by linking polyubiquitinated proteins to clathrin (PubMed:14563850, PubMed:15047686). Mediates clathrin recruitment to early endosomes by

Target Details

ZFYVE16 (PubMed:15657082). Modulates binding of TOLLIP to phosphatidylinositol 3-phosphate (PtdIns(3)P) via binding competition, the association with TOLLIP may favor the release of TOLLIP from endosomal membranes, allowing TOLLIP to commit to cargo trafficking (PubMed:26320582). Acts as a phosphatidylinositol 5-phosphate (PtdIns(5)P) effector by binding to PtdIns(5)P, thereby regulating endosomal maturation (PubMed:25588840). PtdIns(5)P-dependent recruitment to signaling endosomes may block endosomal maturation (PubMed:25588840). Also inhibits Toll-like receptor (TLR) signaling and participates in immune receptor recycling (PubMed:15047686, PubMed:26320582). {ECO:0000269|PubMed:14563850, ECO:0000269|PubMed:15047686, ECO:0000269|PubMed:15657082, ECO:0000269|PubMed:23023224, ECO:0000269|PubMed:25588840, ECO:0000269|PubMed:26320582, ECO:0000269|PubMed:31371777}.

Molecular Weight: 53.8 kDa

UniProt: [O60784](#)

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