

Datasheet for ABIN7544156
TAB1 Protein (AA 1-504) (His tag)



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Overview

Quantity:	1 mg
Target:	TAB1
Protein Characteristics:	AA 1-504
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAB1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TAB1 Protein expressed in mammalian cells.
Sequence:	<p>MAAQRRSLLQ SEQQPSWTDD LPLCHLSGVG SASNRSYSAD GKGTESHPPE DSWLKFRSEN NCFLYGVFNG YDGNRVTNFV AQRLSAELL GQLNAEHAE DVRRVLLQAF DVVERSFLES IDDALAEKAS LQSQLPEGVP QHQLPPQYQK ILERLKTLE EISGGAMAVV AVLLNNKLYV ANVG TNRALL CKSTVDGLQV TQLNVDHTE NEDELFRLSQ LGLDAGKIKQ VGIICGQEST RRIGDYKV KY GYTDIDLLSA AKSKPIIAEP EIHAQPLDG VTGFLVLMSE GLYKALEAAH GPGQANQEIA AMIDTEFAKQ TSLDAVAQAV VDRVKRIHSD TFASGGERAR FCPRHEDMTL LVRNFGYPLG EMSQPTPSA PAAGGRVYPV SVPYSSAQST SKTSVTLSLV MPSQGQMVNG AHSASTLDEA TPTLTNQSPT LTLQSTNTHT QSSSSSSDGG LFRSRPAHSL PPGEDGRVEP YVDFAEFYRL WSVDHGEQSV VTAP</p> <p>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>
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:

TAB1

Alternative Name:

TAB1 ([TAB1 Products](#))

Background:

TGF-beta-activated kinase 1 and MAP3K7-binding protein 1 (Mitogen-activated protein kinase kinase kinase 7-interacting protein 1) (TGF-beta-activated kinase 1-binding protein 1) (TAK1-binding protein 1),FUNCTION: Key adapter protein that plays an essential role in JNK and NF-kappa-B activation and proinflammatory cytokines production in response to stimulation with TLRs and cytokines (PubMed:22307082, PubMed:24403530). Mechanistically, associates with the catalytic domain of MAP3K7/TAK1 to trigger MAP3K7/TAK1 autophosphorylation leading to its full activation (PubMed:10838074, PubMed:25260751, PubMed:37832545). Similarly, associates with MAPK14 and triggers its autophosphorylation and subsequent activation (PubMed:11847341, PubMed:29229647). In turn, MAPK14 phosphorylates TAB1 and inhibits MAP3K7/TAK1 activation in a feedback control mechanism (PubMed:14592977). Plays also a role in recruiting MAPK14 to the TAK1 complex for the phosphorylation of the TAB2 and TAB3 regulatory subunits (PubMed:18021073). {ECO:0000269|PubMed:10838074,

Target Details

	ECO:0000269 PubMed:11847341, ECO:0000269 PubMed:14592977, ECO:0000269 PubMed:18021073, ECO:0000269 PubMed:22307082, ECO:0000269 PubMed:24403530, ECO:0000269 PubMed:25260751, ECO:0000269 PubMed:29229647, ECO:0000269 PubMed:37832545}.
Molecular Weight:	54.6 kDa
UniProt:	Q15750
Pathways:	TLR Signaling , Fc-epsilon Receptor Signaling Pathway , Activation of Innate immune Response , Toll-Like Receptors Cascades

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