

Datasheet for ABIN7559296  
**TAB1 Protein (AA 1-502) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	TAB1
Protein Characteristics:	AA 1-502
Origin:	Mouse
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:	MAAQRRLQ SEQQPSWTDD LPLCHLSGVG SASNRSYSAD GKGTESHPPE DNWLKFRSEN NCFLYGVFNG YDGNRVTNFV AQRLSAELLL GQLNTEHTEA DVRRVLLQAF DVVERSFLES IDDALAEKAS LQSQLPEGVP QHQLPPQYQK ILERLKALER EISGGAMAVV AVLLNSKLYV ANVGTNRALL CKSTVDGLQV TQLNMDHTTE NEDELFRLSQ LGLDAGKIKQ MGVICGQEST RRIGDYKVKY GYTDIDLLSA AKSKPIIAEP EIHGAPLDG VTGFLVLMSE GLYKALEAAH GPGQANQEIA AMIDTEFAKQ TSLDAVAQAV VDRVKRIHSD TFASGGERAK FCPRHEDMTL LVRNFGYPLG EMSQPTPTPA PGGRVYPVSV PYSSAQSTSK TSVTLVSLVMP SQGQMVNGSH SASTLDEATP TLTNQSPTLT LQSTNTHHTQS SSSSSDGLF RSRPAHSLPP GEDGRVEPYV DFAEFYRLWS VDHGEQSVMT AP <b>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.</b>
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:12464436, PubMed:28073917). Mechanistically, associates with the catalytic domain of MAP3K7/TAK1 to trigger MAP3K7/TAK1 autophosphorylation leading to its full activation (PubMed:37832545). Similarly, associates with MAPK14 and triggers its autophosphorylation and subsequent activation (PubMed:24037507). In turn, MAPK14 phosphorylates TAB1 and inhibits MAP3K7/TAK1 activation in a feedback control mechanism. Plays also a role in recruiting MAPK14 to the TAK1 complex for the phosphorylation of the TAB2 and TAB3 regulatory subunits (By similarity). {ECO:0000250|UniProtKB:Q15750, ECO:0000269|PubMed:12464436, ECO:0000269|PubMed:24037507,

## Target Details

---

ECO:0000269|PubMed:28073917, ECO:0000269|PubMed:37832545}.

Molecular Weight: 54.6 kDa

UniProt: [Q8CF89](#)

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