

Datasheet for ABIN7544266
TUBB3 Protein (AA 1-450) (His tag)



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Overview

Quantity:	1 mg
Target:	TUBB3
Protein Characteristics:	AA 1-450
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TUBB3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TUBB3 Protein expressed in mammalian cells.
Sequence:	MREIVHIQAG QCGNQIGAKF WEVISDEHGI DSPGNYVGDS DLQLERISVY YNEASSHKYV PRAILVDLEP GTMDSVRSGA FGHLFRPDNF IFGQSGAGNN WAKGHYTEGA ELVDSVLDVV RKECENCDCCL QGFQLTHSLG GGTGSGMGTL LISKVREEYP DRIMNTFSV V PPKVSDTVV EPYNATLSIH QLVENTDETY CIDNEALYDI CFRTLKLATP TYGDLNHLVS ATMSGVTTSL RFPGQLNADL RKLAVNMVPF PRLHFFMPGF APLTARGSQQ YRALTVPELT QQMFDKNNMM AACDPRHGRY LTVATVFRGR MSMKEVDEQM LAIQSKNSSY FVEWIPNNVK VAVCDIPPRG LKMSSTFIGN STAIQELFKR ISEQFTAMFR RKAFLHWYTG EGMDEMEFTE AESNMNDLVS EYQQYQDATA EEEGEMYEDD EESEEAQGPK 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.
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:

TUBB3

Alternative Name:

TUBB3 ([TUBB3 Products](#))

Background:

Tubulin beta-3 chain (Tubulin beta-4 chain) (Tubulin beta-III),FUNCTION: Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers (PubMed:34996871). Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms (PubMed:34996871). Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin (PubMed:34996871). TUBB3 plays a critical role in proper axon guidance and maintenance (PubMed:20074521). Binding of NTN1/Netrin-1 to its receptor UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion (PubMed:28483977). Plays a role in dorsal root ganglion axon projection towards the spinal cord (PubMed:28483977). {ECO:0000269|PubMed:20074521, ECO:0000269|PubMed:28483977, ECO:0000269|PubMed:34996871}.

Target Details

Molecular Weight:	50.4 kDa
UniProt:	Q13509
Pathways:	Microtubule Dynamics, M Phase

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