

Datasheet for ABIN7564331
KATNB1 Protein (AA 1-658) (His tag)



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Overview

Quantity:	1 mg
Target:	KATNB1
Protein Characteristics:	AA 1-658
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KATNB1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Katnb1 Protein expressed in mammalien cells.
Sequence:	MATPVVTKTA WKLQEIVAHA SNVSSLVLGK ASGRLLATGG DDCRVNLWSI NKPNCIMSLT GHTSPVESVR LNTPEELIVA GSQSGSIRVW DLEAAKILRT LMGHKANICS LDFHPYGEFV ASGSQDTNIK LWDIRRGKCV FRYRGHSQAV RCLRFSPDGK WLASAADDHT VKLWDLTAGK MMSEFPGHTG PVNVVEFHPN EYLLASGSSD RTIRFDWLEK FQVVSCIEGE PGPVRSVLFN PDGCCLYSGC QDSLRYVGWE PERCFDVVLV NWGKVADLAI CNDQLIGVAF SQSNVSSYVV DLTRVTRTGT VTQDPVQANQ PLTQQTPNPG VSLRRIYERP STTCSKPQRV KHNSESEERS PSEDDRDER ESRAEIQNAE DYNEIFQPKN SISRTPPRRS EFPAPPEDD AATVKEVSKP SPAMDVQLPQ LPVPNLEVPA RPSVMTSTPA PKGEPDIIPA TRNEPIGLKA SDFLPAVKVP QQAELVDEDA MSQIRKGHDT MFVVLTSRHK NLDTVRAVWT TGDIKTSVDS AVAINDL SVV VDLLNIVNQK ASLWKLDLCT TVLPQIEKLL QSKYESYVQT GCTSLKLILQ RFLPLITDIL AAPPSVGVDI SREERLHKCR LCFKQLKSIS GLVKS KSGLS GRHGSAFREL HLLMASLD 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:

KATNB1

Alternative Name:

Katnb1 ([KATNB1 Products](#))

Background:

Katanin p80 WD40 repeat-containing subunit B1 (Katanin p80 subunit B1) (p80 katanin),FUNCTION: Participates in a complex which severs microtubules in an ATP-dependent manner. May act to target the enzymatic subunit of this complex to sites of action such as the centrosome. Microtubule severing may promote rapid reorganization of cellular microtubule arrays and the release of microtubules from the centrosome following nucleation. Microtubule release from the mitotic spindle poles may allow depolymerization of the microtubule end proximal to the spindle pole, leading to poleward microtubule flux and poleward motion of chromosome. The function in regulating microtubule dynamics at spindle poles seems to depend on the association of the katanin KATNA1:KATNB1 complex with ASPM which recruits it to microtubules. Reversely KATNA1:KATNB1 can enhance ASPM blocking activity on

Target Details

microtubule minus-end growth. Microtubule release within the cell body of neurons may be required for their transport into neuronal processes by microtubule-dependent motor proteins. This transport is required for axonal growth. {ECO:0000255|HAMAP-Rule:MF_03022, ECO:0000269|PubMed:28436967}.

Molecular Weight: 72.6 kDa

UniProt: [Q8BG40](#)

Pathways: [Microtubule Dynamics](#)

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