

Datasheet for ABIN7565233
KATNA1 Protein (AA 1-491) (His tag)



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Overview

Quantity:	1 mg
Target:	KATNA1
Protein Characteristics:	AA 1-491
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KATNA1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Katna1 Protein expressed in mammalian cells.
Sequence:	<p>MSLQMIVENV KLAREYALLG NYDSAMVYYQ GVLDQMNKYL YSVKDTHLRQ KWQQVWQEIN VEAKQVKDIM KTLESFKLDI TSLQAAQHEL PAAEGEVWSL PVPVERRPLP GPRKRQSSQH SDPKPHSNRP STVVRAHRPS PQNLHNDRGK AVRSREKKEQ SKGREEKNKL PAAVTEPEAN KFDGTGYDKD LVEALERDII SQNPVNRWYD IADLVEAKKL LQEAVLPMW MPEFFKGIRR PWKGVL MVGP PGTGKTLAK AVATECKTTF FNVSSSTLTS KYRGESEKLV RLLFEMARFY SPATIFIDEI DSICSRGTS EEHEASRRMK AELLVQMDGV GGASENDDPS KMVMVLAATN FPWDIDEALR RRLEKRIYIP LPSAKGREEL LRISLRELEL ADDVNLASIA ENMEGYSGAD ITNVCRDASL MAMRRRIEGL TPEEIRNLSR EAMHMPTTME DFEMALKKIS KSVSAADIER YEKWIVEFGS C 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:

KATNA1

Alternative Name:

Katna1 ([KATNA1 Products](#))

Background:

Katanin p60 ATPase-containing subunit A1 (Katanin p60 subunit A1) (EC 5.6.1.1) (Lipotransin) (p60 katanin),FUNCTION: Catalytic subunit of a complex which severs microtubules in an ATP-dependent manner. 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 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_03023,

Target Details

ECO:0000269|PubMed:28436967}.

Molecular Weight: 55.9 kDa

UniProt: [Q9WV86](#)

Pathways: [Microtubule Dynamics](#)

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