

Datasheet for ABIN3093533

## KATNB1 Protein (AA 1-655) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	KATNB1
Protein Characteristics:	AA 1-655
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KATNB1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MATPVVTKTA WKLQEIVAHA SNVSSLVLGK ASGRLLATGG DDCRVNLWSI NKPNCIMSLT</p> <p>GHTSPVESVR LNTPEELIVA GSQSGSIRVW DLEAAKILRT LMGHKANICS LDFHPYGEFV</p> <p>ASGSQDTNIK LWDIRRGKCV FRYRGHSQAV RCLRFSPDGK WLASAADDHT VKLWDLTAGK</p> <p>MMSEFPGHTG PVNVVEFHPN EYLLASGSSD RTIRFDWLEK FQVVSCEIEG PGPVRSVLFN</p> <p>PDGCCLYSGC QDSLRYVGWE PERCFDVVLV NWGKVADLAI CNDQLIGVAF SQSNVSSYVV</p> <p>DLTRVTRTGT VARDPVQDHR PLAQPLPNPS APLRRIYERP STTCSKPQRV KQNSESERRS</p> <p>PSSDDRDER ESRAEIQNAE DYNEIFQPKN SISRTPPRRS EPFPAPPEDD AATAKEAAKP</p> <p>SPAMDVQFPV PNLEVLPRPP VVASTPAPKA EPAIIPATRN EPIGLKASDF LPAVKIPQQA</p> <p>ELVDEDAMSQ IRKGHDTMCV VLTSRHKNLD TVRAVWTMGD IKTSVDSAVA INDLSVVVDL</p> <p>LNIVNQKASL WKLDLCTTVL PQIEKLLQSK YESYVQTGCT SLKLILQRFL PLITDMLAAP</p> <p>PSVGVDISRE ERLHKCRLCY QQLKSISGLV KSKSGLSGRH GSTFRELHLL MASLD</p>

**Sequence without tag. The proposed Strep-Tag is based on experience s 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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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## Product Details

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Grade: custom-made

## Target Details

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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. 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:10751153}.

Molecular Weight: 72.3 kDa

UniProt: [Q9BVA0](#)

Pathways: [Microtubule Dynamics](#)

## Application Details

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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.

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Application Details

	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months