

Datasheet for ABIN3093532

KATNA1 Protein (AA 1-491) (Strep Tag)



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Quantity:	250 μg
Target:	KATNA1
Protein Characteristics:	AA 1-491
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KATNA1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details	
Brand:	AliCE®
Sequence:	MSLLMISENV KLAREYALLG NYDSAMVYYQ GVLDQMNKYL YSVKDTYLQQ KWQQVWQEIN
	VEAKHVKDIM KTLESFKLDS TPLKAAQHDL PASEGEVWSM PVPVERRPSP GPRKRQSSQY
	SDPKSHGNRP STTVRVHRSS AQNVHNDRGK AVRCREKKEQ NKGREEKNKS PAAVTEPETN
	KFDSTGYDKD LVEALERDII SQNPNVRWDD IADLVEAKKL LKEAVVLPMW MPEFFKGIRR
	PWKGVLMVGP PGTGKTLLAK AVATECKTTF FNVSSSTLTS KYRGESEKLV RLLFEMARFY
	SPATIFIDEI DSICSRRGTS EEHEASRRVK AELLVQMDGV GGTSENDDPS KMVMVLAATN
	FPWDIDEALR RRLEKRIYIP LPSAKGREEL LRISLRELEL ADDVDLASIA ENMEGYSGAD
	ITNVCRDASL MAMRRRIEGL TPEEIRNLSK EEMHMPTTME DFEMALKKVS KSVSAADIER
	YEKWIFEFGS C
	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.

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 posttranslational 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.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, 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) (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. 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,
	ECO:0000269 PubMed:10751153, ECO:0000269 PubMed:11870226,
	ECO:0000269 PubMed:19287380}.
Molecular Weight:	56.0 kDa
UniProt:	075449
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.
Comment:	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 produc
	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!
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 Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months