

# Datasheet for ABIN3088737

# ANP32B Protein (AA 1-251) (Strep Tag)



# Overview

Quantity:	250 μg
Target:	ANP32B
Protein Characteristics:	AA 1-251
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANP32B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

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Product Details	
Brand:	AliCE®
Sequence:	MDMKRRIHLE LRNRTPAAVR ELVLDNCKSN DGKIEGLTAE FVNLEFLSLI NVGLISVSNL
	PKLPKLKKLE LSENRIFGGL DMLAEKLPNL THLNLSGNKL KDISTLEPLK KLECLKSLDL
	FNCEVTNLND YRESVFKLLP QLTYLDGYDR EDQEAPDSDA EVDGVDEEEE DEEGEDEEDE
	DDEDGEEEEF DEEDDEDEDV EGDEDDDEVS EEEEEFGLDE EDEDEDEEE EEEGGKGEKR
	KRETDDEGED D
	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:	ANP32B
Alternative Name:	ANP32B (ANP32B Products)

Background:

Acidic leucine-rich nuclear phosphoprotein 32 family member B (Acidic protein rich in leucines) (Putative HLA-DR-associated protein I-2) (PHAPI2) (Silver-stainable protein SSP29),FUNCTION: Multifunctional protein that is involved in the regulation of many processes including cell proliferation, apoptosis, cell cycle progression or transcription (PubMed:20015864, PubMed:18039846). Regulates the proliferation of neuronal stem cells, differentiation of leukemic cells and progression from G1 to S phase of the cell cycle. As negative regulator of caspase-3-dependent apoptosis, may act as an antagonist of ANP32A in regulating tissue homeostasis (PubMed:20015864). Exhibits histone chaperone properties, able to recruit histones to certain promoters, thus regulating the transcription of specific genes (PubMed:20538007, PubMed:18039846). Also plays an essential role in the nucleocytoplasmic transport of specific mRNAs via the uncommon nuclear mRNA export receptor XPO1/CRM1 (PubMed:17178712). Participates in the regulation of adequate adaptive immune responses by acting on mRNA expression and cell proliferation (By similarity).

{ECO:0000250|UniProtKB:Q9EST5, ECO:0000269|PubMed:17178712,

ECO:0000269|PubMed:18039846, ECO:0000269|PubMed:20015864,

ECO:0000269|PubMed:20538007}., FUNCTION: (Microbial infection) Plays an essential role in influenza A and B viral genome replication (PubMed:33045004, PubMed:31217244). Also plays a role in foamy virus mRNA export from the nucleus to the cytoplasm (PubMed:21159877). {ECO:0000269|PubMed:21159877, ECO:0000269|PubMed:31217244, ECO:0000269|PubMed:33045004}.

Molecular Weight:

28.8 kDa

UniProt:

092688

## **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:

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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