Datasheet for ABIN3135669

N4BP1 Protein (AA 1-893) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	N4BP1
Protein Characteristics:	AA 1-893
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This N4BP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAARVVLDEF TAPAEKAALL ERSRGRIEAL FGVGLAVLGA LGAEEPLPAR IWLQLRGAQE AVHSAKEYIK GICEPELEEK ECYPKAMHCI FVGAQSLFLK SLIQDTCADL CVLDTGLLGI RGSAEAVVMA RSHIQQFVKL FESNENLPSN QRESEIKREF RQFVEAHADS YTMDLLILPT SLKKELLSLT QGEESLFETD DDVITVGDVR PPEYTQSAAT GPSSARDEVV VQEDSRNKAR TPVSELTKHM DTVFSSSPDV LFVPVNGLSP DEDALSKDRV CHKRRSSDTE ERHTKKQFSL ENVPEGELLP DGKGSAGNEV IDLSDPASNS TNLSPDGKDT TEEMEYNILV NFFKTMGYSQ EIVEKVIREY GPSTEPLLLL EEIEKENKRL QEDRDFPPCT VYPDASQSRN AGVGSTTNEL TADSTPKKAQ SHTEQSMVER FSQLPFKDSK HCTSNCKVNS FRTVPVGQKQ EIWGSKQNSS CTVDLETDGH SASAASASPK DISFVSRGAS GHQQRNPAFP ENGFQQQTEP LLPNNTKPAC EKRSGSCSSP QPKPNYPPLS PPLPLPQLLP SVTEARLGGS SDHIDSSVTG VQRFRDTLKI PYKLELKNEP GRADLKHIVI DGSNVAITHG LKKFFSCRGI AIAVEYFWKL GNRNITVFVP

QWRTRRDPNI TEQHFLTQLQ ELGILSLTPA RMVFGERIAS HDDRFLLHLA DKTGGIIVTN DNFREFVTES VSWREIITKR LLQYTFVGDI FMVPDDPLGR NGPRLEEFLR KEAFLRHMQP LLNALPSVGT FDPGFRSPST QVANNSHQPP PRIQTSSSPW LPQQSHFTAL ATLPSMQQNP PLPAQRSSAE TSELREALLK IFPDSEQKLK IDQILAAHPY MKDLNALSAL VLD

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 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.

Product Details

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:	N4BP1
Alternative Name:	N4bp1 (N4BP1 Products)
Background:	NEDD4-binding protein 1 (N4BP1) (EC 3.1.-.-),FUNCTION: Potent suppressor of cytokine production that acts as a regulator of innate immune signaling and inflammation (PubMed:32971525). Acts as a key negative regulator of select cytokine and chemokine responses elicited by TRIF-independent Toll-like receptors (TLRs), thereby limiting inflammatory cytokine responses to minor insults (PubMed:32971525). In response to more threatening pathogens, cleaved by CASP8 downstream of TLR3 or TLR4, leading to its inactivation, thereby allowing production of inflammatory cytokines (PubMed:32971525). Acts as a restriction factor against some viruses: restricts viral replication by binding to mRNA viruses and mediating their degradation via its ribonuclease activity (By similarity). Also acts as an inhibitor of the E3 ubiquitin-protein ligase ITCH: acts by interacting with the second WW domain of ITCH, leading to compete with ITCH's substrates and impairing ubiquitination of substrates (PubMed:17592138). {ECO:0000250|UniProtKB:O75113, ECO:0000269|PubMed:17592138, ECO:0000269|PubMed:32971525}.
Molecular Weight:	99.1 kDa
UniProt:	Q6A037

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.

Application Details

	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!
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