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Datasheet for ABIN3094004

N4BP1 Protein (AA 1-896) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	N4BP1
Protein Characteristics:	AA 1-896
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This N4BP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MAARAVLDEF TAPAEKAELL EQSRGRIEGL FGVSLAVLGA LGAEELPAR IWLQLCGAQE
AVHSAKEYIK GICEPELEER ECYPKDMHCI FVGAESLFLK SLIQDTCADL CILDIGLLGI
RGSAAVVMMA RSHIQQFVKL FENKENLPSS QKESEVKREF KQFVEAHADN YTMDLLILPT
SLKKELLTLT QGEENLFETG DDEVIEMRDS QQTEFTQNAA TGLNISRDET VLQEEARNKA
GTPVSELTKQ MDTVLSSSPD VLFDPINGLT PDEEALSNER ICQKRRFSDS EERHTKKQFS
LENVQEGEIL HDAKTLAGNV IADLSOSSAD SENLSPDIKE TTEEMEYNIL VNFFKTMGYS
QEIVEKVIKV YGPSTEPLLL LEEIEKENKR FQEDREFSAG TVYPETNKT NKGVYSSTNE
LTTDSTPKKT QAHTQQNMVE KFSQLPFKVE AKPCTSNCRI NTFRTVPIEQ KHEVWGSNQN
YICNTDPETD GLSPSVASPS PKEVNFVSRG ASSHQPRVPL FPENGLHQQP EPLLPNMKS
ACEKRLGCCS SPHSKPNCST LSPPMPLQL LPSVTDARSA GPSDHIDSSV TGVQFRDRTL
KIPYKLELKN EPGRTDLKHI VIDGSNVAIT HGLKKFFSCR GIAIAVEYFW KLGNRNITVF
VPQWRTRRDP NVTEQHFLTQ LQELGILSLT PARMVFGERI ASHDDRFLH LADKTGGIIV

TNDNFREFVN ESVSWREIIT KRLLQYTFVG DIFMVPDDPL GRSGPRLEEF LQKEVCLRDM
QPLLSALPNV GMFDPSFRVP GTQAASTSHQ PPTRIQGAPS SHWLPQQPHF PLLPALPSLQ
QNLMPAQRS SAETNELREA LLKIFPDSEQ RLKIDQILVA HPYMKDLNAL SAMVLD

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

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. 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. In response to more threatening pathogens, cleaved by CASP8 downstream of TLR3 or TLR4, leading to its inactivation, thereby allowing production of inflammatory cytokines (By similarity). Acts as a restriction factor against some viruses, such as HIV-1: restricts HIV-1 replication by binding to HIV-1 mRNAs and mediating their degradation via its ribonuclease activity (PubMed:31133753). 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 (By similarity). {ECO:0000250 UniProtKB:Q6A037, ECO:0000269 PubMed:31133753}.
Molecular Weight:	100.4 kDa
UniProt:	075113

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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process