Datasheet for ABIN3113975

NCKAP1L Protein (AA 1-1127) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	NCKAP1L
Protein Characteristics:	AA 1-1127
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCKAP1L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MSLTSAYQHK LAEKLTILND RGQGVLIRMY NIKKTCSDPK SKPPFLLEKS MEPSLKYINK KFPNIDVRNS TQHLGPVHRE KAEIIRFLTN YYQSFVDVME FRDHVYELLN TIDACQCHFD INLNFDFTRS YLDLIVTYTS VILLLSRIED RRILIGMYNC AHEMLHGHGD PSFARLGQMV LEYDHPLKKL TEEFGPHTKA VSGALLSLHF LFVRRNQGAE QWRSAQLLSL ISNPPAMINP ANSDTMACEY LSVEVMERWI IIGFLLCHGC LNSNSQCQKL WKLCLQGSLY ITLIREDVLQ VHKVTEDLFS SLKGYGKRVA DIKESKEHVI ANSGQFHCQR RQFLRMAVKE LETVLADEPG LLGPKALFAF MALSFIRDEV TWLVRHTENV TKTKTPEDYA DSSIAELLFL LEGIRSLVRR HIKVIQQYHL QYLARFDALV LSDIIQNLSV CPEEESIIMS SFVSILSSLN LKQVDNGEKF EFSGLRLDWF RLQAYTSVAK APLHLHENPD LAKVMNLIVF HSRMLDSVEK LLVETSDLST FCFHLRIFEK MFAMTLEESA MLRYAIAFPL ICAHFVHCTH EMCPEEYPHL KNHGLHHCNS FLEELAKQTS NCVLEICAEQ RNLSEQLLPK HCATTISKAK NKKTRKQRQT PRKGEPERDK PGAESHRKNR SIVTNMDKLH LNLTELALTM NHVYSFSVFE HTIFPSEYLS SHLEARLNRA

IVWLAGYNAT TQEIVRPSEL LAGVKAYIGF IQSLAQFLGA DASRVIRNAL LQQTQPLDSC GEQTITTLYT NWYLESLLRQ ASSGTIILSP AMQAFVSLPR EGEQNFSAEE FSDISEMRAL AELLGPYGMK FLSENLMWHV TSQIVELKKL VVENMDILVQ IRSNFSKPDL MASLLPQLTG AENVLKRMTI IGVILSFRAM AQEGLREVFS SHCPFLMGPI ECLKEFVTPD TDIKVTLSIF ELASAAGVGC DIDPALVAAI ANLKADTSSP EEEYKVACLL LIFLAVSLPL LATDPSSFYS IEKDGYNNNI HCLTKAIIQV SAALFTLYNK NIETHLKEFL VVASVSLLQL GQETDKLKTR NRESISLLMR LVVEESSFLT LDMLESCFPY VLLRNAYREV SRAFHLN

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:

Product Details

- 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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 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:	NCKAP1L
Alternative Name:	NCKAP1L (NCKAP1L Products)
Background:	Nck-associated protein 1-like (Hematopoietic protein 1) (Membrane-associated protein HEM-1),FUNCTION: Essential hematopoietic-specific regulator of the actin cytoskeleton (Probable). Controls lymphocyte development, activation, proliferation and homeostasis, erythrocyte membrane stability, as well as phagocytosis and migration by neutrophils and macrophages (PubMed:16417406, PubMed:17696648). Component of the WAVE2 complex which signals downstream of RAC to stimulate F-actin polymerization. Required for stabilization and/or translation of the WAVE2 complex proteins in hematopoietic cells (By similarity). Within the WAVE2 complex, enables the cortical actin network to restrain excessive degranulation and granule release by T-cells (PubMed:32647003). Required for efficient T-lymphocyte and neutrophil migration (PubMed:32647003). Exhibits complex cycles of activation and inhibition to generate waves of propagating the assembly with actin (PubMed:16417406). Also involved in mechanisms WAVE-independent to regulate myosin and actin polymerization during neutrophil chemotaxis (PubMed:17696648). In T-cells, required for proper mechanistic target of rapamycin complex 2 (mTORC2)-dependent AKT phosphorylation, cell proliferation and cytokine secretion, including that of IL2 and TNF (PubMed:32647003).

Target Details

	{ECO:0000250|UniProtKB:Q8K1X4, ECO:0000269|PubMed:16417406, ECO:0000269|PubMed:17696648, ECO:0000269|PubMed:32647003, ECO:0000303|PubMed:20969869}.
Molecular Weight:	128.2 kDa
UniProt:	P55160
Pathways:	Regulation of Actin Filament Polymerization

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 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. 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)

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

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