Datasheet for ABIN7554721

NCKAP1L Protein (AA 1-1127) (His tag)

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Overview

Quantity:	1 mg
Target:	NCKAP1L
Protein Characteristics:	AA 1-1127
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCKAP1L protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NCKAP1L Protein expressed in mammalian cells.
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

Product Details

	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 Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NCKAP1L
Alternative Name:	NCKAP1L (NCKAP1L Products)
Background:	Nck-associated protein 1-like (Hematopoietic protein 1) (Membrane-associated protein HEM-

Target Details

	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). {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:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	12 months