

Datasheet for ABIN3077971

NCAPH2 Protein (AA 1-605) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NCAPH2
Protein Characteristics:	AA 1-605
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCAPH2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MEDVEARFAH LLQPIRDLTK NWEVDVAAQL GEYLEELDQI CISFDEGKTT MNFIEAALLI</p> <p>QGSACVYSKK VEYLYSLVYQ ALDFISGKRR AKQLSSVQED RANGVASSGV PQEAENEFLS</p> <p>LDDFPDSRTN VDLKNDQTPS EVLIIPLLPM ALVAPDEMEK NNNPLYSRQG EVLASRKDFR</p> <p>MNTCVPHPRG AFMLEPEGMS PMEPAGVSPM PGTQKDTGRT EEQPMESVVC RSPVPALGFS</p> <p>QEPGPSPEGP MPLGGGEDED AEEAVELPEA SAPKAALEPK ESRSPQSSAA LPRRYMLRER</p> <p>EGAPEPASCV KETPDPWQSL DPFDSLESKP FKKGRPYSPV PCVEEALGQK RKRKGAAKLQ</p> <p>DFHQWYLAAY ADHADSRRRL RKGPSFADME VLYWTHVKEQ LETLRKLQRR EVAEQWLRPA</p> <p>EEDHLEDSLE DLGAADDLE PEEYMEPEGA DPREAADLDA VPMSLSYEEL VRRNVELFIA</p> <p>TSQKFVQETE LSQRIRDWED TVQPLLQEQE QHVPFDIHTY GDQLVSRFPQ LNEWCPFAEL</p> <p>VAGQPAFEVC RSMLASLQLA NDYTVEITQQ PGLEMAVDTM SLRLLTHQRA HKRFQTYAAP</p> <p>SMAQP</p>

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.

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).

Product Details

Grade: custom-made

Target Details

Target: NCAPH2

Alternative Name: NCAPH2 ([NCAPH2 Products](#))

Background: Condensin-2 complex subunit H2 (Chromosome-associated protein H2) (hCAP-H2) (Kleisin-beta) (Non-SMC condensin II complex subunit H2),FUNCTION: Regulatory subunit of the condensin-2 complex, a complex that seems to provide chromosomes with an additional level of organization and rigidity and in establishing mitotic chromosome architecture (PubMed:14532007). May promote the resolution of double-strand DNA catenanes (intertwines) between sister chromatids. Condensin-mediated compaction likely increases tension in catenated sister chromatids, providing directionality for type II topoisomerase-mediated strand exchanges toward chromatid decatenation. Required for decatenation of chromatin bridges at anaphase. Early in neurogenesis, may play an essential role to ensure accurate mitotic chromosome condensation in neuron stem cells, ultimately affecting neuron pool and cortex size (By similarity). Seems to have lineage-specific role in T-cell development (PubMed:14532007). {ECO:0000250|UniProtKB:Q8BSP2, ECO:0000269|PubMed:14532007}.

Molecular Weight: 68.2 kDa

UniProt: [Q6IBW4](#)

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

	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