

[Go to Product page](#)

Datasheet for ABIN3135885

NCAPD3 Protein (AA 1-1506) (Strep Tag)

Overview

Quantity:	1 mg
Target:	NCAPD3
Protein Characteristics:	AA 1-1506
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCAPD3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MALQDLGENL QPWCPLGLSL EWVKTVWDL D FTEIEPLDPS IVGEILETGR DAFTKLYGSL FPFATDESGS LESIWTF FTE NDISSNTLVA LFCHFVQEAH KKSASAQYRE YGLHAAGLYF LLEIPGI VV NQVFHPVMFD KCIQILKRSW PQESNLTQKR KKDHSKSSKD NYRKS RKR GK PPRKEDYQVD ELSREEEEEEE EEIYFSGRDL CQIRDAIFNL LKNFLRLLPK FSLKEKPQSI QTCIEVFVAL TSFEPIPHKF LISQARNLNE VKHISELAYY GLYLLCSPVH GEENKVIGSI FHQMLNVILM LEVGEGSRCA PLAITSQVIN CRNQAVQFVS SLVDELQASV YPVLGTLLQH ICAKVVDKAE YRTYAAQSLV QLLTKLPSEE YATFIAWLYK YSRSSKIPHR VFTLDVALAL LTLPERELDD TVSLEHQKFL KHKFFVQEII FDRCLDKAPT VRSKALSSFA HCLELSSSNT SESILEIFIN SNLVPGIQNL SNTVLNPSPV LTRNGYSAQ SRTHNNDEQT LPGERCFMTM LRKRIKDEKI NVRKSALQVL MSILKHCDIL SMEQDLLILQ DHCRDPAISV RKQALQSLTE LVMAQPTCVP VQKAWLMGVI PVVMDCESTV QEKALECLDQ LLLQNIKHHK KFHSADRSQV LAWSLLALLT IENQDLRRYL NKAFAHIWSKK DKFSSTFINS VISHTDTERS APAWMLLSKI</p>
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TCSSPKLDYT KIIESWERLS REQSPNSNTL GYMLCVIGHI AKHLPKGTRD KITGVIAKAL
NGFQWSPELI SSSVDALQKL CRASAKTVLE EQGLLKQVCG DVLATCEQHL SNILLKEDGT
GNMDEGLVVK CIFTLGDIQ LCPAIVEKRV FLLIQSILAS SAHSDHLPSS QGTTDALDSQ
PPFQPRSSAM PSVIRAHAI TLGKLCQHE DLAKKSIPAL VRELEVSEDV AVRNNVIIV
CDLCIRYTM VDNYPNISV CLKDSDPFIR KQTLVLLTNL LQEEYVKWKG SLFFRFVSTL
VDSHPDIASL GEFCLAHLLL KRNPTMFFQH FIECIFHFNS YEKHGQYNKF SQSERGKQLF
LLKGKTNEK RMRIYKFLLE HFTDEQRFNV TSKICLNILA CFTDGILPMD MEASELLSDT
FDILNSKEIK LLAMRAQTSK DLLEEDDVAL ANVVMQEAQM KIISQVQKRN FIENIPIII
SLKTVLEKNK IPALRELMNY LREVMQDYRD EINDFFAVDK QLASELEYDM KKYNEQLAQE
QALTEHANAT KGPEDSDRVP SAQVAPDLEA VPALAAAPMA AAAAAAPMAA AAAAAGQDNA
DVPPTQSRPS APRSNFTPTL PPISENGPLK IMSSTRPMSL STIAILNSVK KAVASKNRTR
SLGALPFNVE TGSPENPSSH ESSLSLEKES DRTVNHVTKR AISTPENSIS DVTFAAGVSY
IGTPATFFTK EKHEAQEQGS DILCLSLLDK RPPQSPQWNV KSPARSHGST RSSRRSLRKA
PLKTAN

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.

Product 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!

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.

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:	NCAPD3
Alternative Name:	Ncapd3 (NCAPD3 Products)
Background:	Condensin-2 complex subunit D3 (Non-SMC condensin II complex subunit D3),FUNCTION: Regulatory subunit of the condensin-2 complex, a complex which establishes mitotic chromosome architecture and is involved in physical rigidity of the chromatid axis. 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. Specifically required for decatenation of centromeric ultrafine

Target Details

DNA bridges during 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. {ECO:0000250|UniProtKB:P42695}.

Molecular Weight: 169.4 kDa

UniProt: [Q6ZQK0](#)

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)