

Datasheet for ABIN7564172  
**NCAPD3 Protein (AA 1-1506) (His tag)**



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## Overview

Quantity:	1 mg
Target:	NCAPD3
Protein Characteristics:	AA 1-1506
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCAPD3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Ncapd3 Protein expressed in mammalian cells.
Sequence:	<p>MALQDLGENL QPWCPGLSL EWVKTVWDL D FTEIEPLDPS IVGEILETGR DAFTKLYGSL          PPFATDESGS LESIWTFSTE NDISSNTLVA LFCHFVQEAH KKSASAQYRE YGLHAAGLYF          LLLLEIPGIW NQVFHPVMFD KCIQILKRSW PQESNLTQKR KKDHSKSSKD NYRKSRRKRGK          PPRKEDYQVD ELSREEEEEEE EEIYFSGRDL CQIRDAIFNL LKNFLRLLPK FSLKEKPQSI          QTCIEVFVAL TSFEPIPHKF LISQARNLNE VKHISELAYY GLYLLCSPVH GEENKVIGSI          FHQMLNVILM LEVGEGRCA PLAITSQVIN CRNQAVQFVS SLVDELQASV YPVLGTLQHQ          ICAKVVDKAE YRTYAAQSLV QLLTKLPSEE YATFIWLYK YSRSSKIPHR VFTLDVALAL          LTLPERELDD TVSLEHQKFL KHKFFVQEII FDRCLDKAPT VRSKALSSFA HCLELSSSNT          SESILEIFIN SNLVPGIQNL SNTVLNPSPV LTRNGYSAQ SRTHNNDEQT LPGERCFMTM          LRKRIKDEKI NVRKSALQVL MSILKHCIL SMEQDLLILQ DHCRDPAISV RKQALQSLTE          LVMAQPTCVP VQKAWLMGVI PVVMDCESTV QEKALECLDQ LLLQNIKHHK KFHSADRSQV          LAWSLLALLT IENQDLRRYL NKAFHIWSKK DKFSSTFINS VISHTDTERS APAWMLLSKI</p>

TCSSPKLDYT KIIESWERLS REQSPNSNTL GYMMLCVIGHI AKHLPKGTRD KITGVIAKAL  
NGFQWSPELI SSSVDALQKL CRASAKTVLE EQGLLKQVCG DVLATCEQHL SNILLKEDGT  
GNMDEGLVVK CIFTLGDIHQ LCPAIVEKRV FLLIQSILAS SAHSDHLPSS QGTTDALDSQ  
PPFQPRSSAM PSVIRAHAI TLGKLCLOHE DLAKKSIPAL VRELEVSEAV AVRRNNVIIV  
CDLCIRYTVM VDNYPNISV CLKDSDPFIR KQTLVLLTNL LQEEYVKWKG SLFFRFVSTL  
VDSHPDIASL GEFCLAHLLL KRNPTMFFQH FIECIFHFNS YEKHGQYNKF SQSERGKQLF  
LLKGKTNKEK 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 TGSPENSSH ESSLSLEKES DRTVNHVTKR AISTPENSIS DVTFAAGVSY  
IGTPATFFTK EKHEAQEQGS DILCLSLLDK RPPQSPQWNV KSPARSHGST RSSRRSLRKA  
PLKTAN **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.**

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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.

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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.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target:	NCAPD3
Alternative Name:	Ncapd3 ( <a href="#">NCAPD3 Products</a> )
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 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:	<a href="#">Q6ZQK0</a>

## Application Details

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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

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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.
Expiry Date:	12 months