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Datasheet for ABIN3136568
NCAPD2 Protein (AA 1-1392) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	NCAPD2
Protein Characteristics:	AA 1-1392
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCAPD2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MSPHNFEFHL PLSPEELLKS GGVNQYVVRE VLPVKHLSSQ LRAFQSAFRA QGPLAILEHF
 DTVYSILHHF RSIEPGLKED TLEFLKKVVS RHSQELSSIL DDAALSGSDR SAHLNALKMN
 CYALIRLLES FENMTSQTSL IDLDIGGK GK RARAKATLGF DWEEERQPV L QLLTQLLQLD
 IRHLWNHSAI EEEFVSLVTG CCYRLLENPT ISHQKNRSTK EAIHLLGVA LVRYNHMLSA
 TVKIIQMLQH FEHLPPVLVT AVSLWATDYG MKSIVGEIVR EIGQKCPQEL SRDTAGAKGF
 AAFLTELAER IPAVLMANMC ILLDHL DGEN YMMRNAVLA A IAEMVLQVLN GDQLEESARE
 TRDQFLDILQ AHGHDVNSFV RSRVLQLFAR IVQQKALPLT RFQAVVALAV GRLADKSVLV
 CKNAIQLLAS FLANNPFSCK LSDIDL AGLP QKEIQKLQEM RAQRSSAAAT AALDPEEEWD
 AMLPELKSTL QLLKLPQEE GDHQIADAET AEEVKGRIRQ LLAKASYKQA IVLTREATSH
 FQSEPF SHT EPEENSFLNL LGLIFKGPEA STQDSHGDTD PGLTGSKDSP SVPEPEGSQS
 NDELVKQEM L VQYLQDAYGF SQKITEAIGI ISKMMYENTT TVVQEVIEFF VMVFQFGVPQ
 ALFGVRRMLP LIWSKEPGVR EAVLNAYRQL YLNPKGDSAR AKAQTLIHNL SLLLVDASVG

TIQCLEEILC EFVQKDEVKP AVIQLLWERA TEKVPSSPLE RCSSVMLLGM MARGKPEIVG
SNLDALVRVG LDEKSPQDYR LAQQVCLAIA NISDRRKPSL GERHPPFRLP QEHLRFERLQ
DMVTKGFAHP DPLWIPFKEV AVTLTYQLAE SPDVLCQAQML QGCAKQVLEK LEKNATEADP
KETAPRLPTF LLMNLLSLAG DVALQQLVHL EQAVSGELGR RRVLREEQEH RAKEPKEKTA
SSETTMEEL GLVGGATADD TEAELIRSIC EKELLDGNQV LAAFVPLLLK VCNPNGLYSN
PELCAAASLA LGKFCMISAP FCDSQLRLLF TMLEKSSLPT VRSNLMVATG DLAIRFPNLV
DPWTPHLYAR LRDPAQQVRK TAGLVMTHLI LKDMVKVKGQ VSEMAVLLID PVPQIAALAK
NFFNELSHKG NAIYNLLPDI ISRLSDPEGG VEEEPFHTIM KQLLSYITKD KQTESLVEKL
CQRFRTARTE RQYRDLAYCM SQLPLTERGL QKMLDNFECF GDKLLDESVF SAFLSIVGKL
RRGAKPEGKA IIDEFEQKLR ACHTRGMDGI EEFETGQGGG QRALSAKKPS AVSRLQPLTS
VDSDNDFVTP KPRRTKGRP QTQQRKKSQR KAKVVFLSDE SSEDELSAEM TEEETPKRTT
PIRRASGRRH RS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ncapd2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	NCAPD2
Alternative Name:	Ncapd2 (NCAPD2 Products)
Background:	Regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases. May target the condensin complex to DNA via its C-terminal domain (By similarity). {ECO:0000250}.
Molecular Weight:	156.6 kDa Including tag.
UniProt:	Q8K2Z4

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

Images



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