Datasheet for ABIN7564643

NCAPD2 Protein (AA 1-1392) (His tag)

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Overview

Quantity:	1 mg
Target:	NCAPD2
Protein Characteristics:	AA 1-1392
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCAPD2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Ncapd2 Protein expressed in mammalien cells.
Sequence:	MSPHNFEFHL PLSPEELLKS GGVNQYVVRE VLPVKHLSSQ LRAFQSAFRA QGPLAILEHF DTVYSILHHF RSIEPGLKED TLEFLKKVVS RHSQELSSIL DDAALSGSDR SAHLNALKMN CYALIRLLES FENMTSQTSL IDLDIGGKGK RARAKATLGF DWEEERQPVL QLLTQLLQLD IRHLWNHSAI EEEFVSLVTG CCYRLLENPT ISHQKNRSTK EAIAHLLGVA LVRYNHMLSA TVKIIQMLQH FEHLPPVLVT AVSLWATDYG MKSIVGEIVR EIGQKCPQEL SRDTAGAKGF AAFLTELAER IPAVLMANMC ILLDHLDGEN YMMRNAVLAA IAEMVLQVLN GDQLEESARE TRDQFLDILQ AHGHDVNSFV RSRVLQLFAR IVQQKALPLT RFQAVVALAV GRLADKSVLV CKNAIQLLAS FLANNPFSCK LSDIDLAGPL QKEIQKLQEM RAQRRSAAAT AALDPEEEWD AMLPELKSTL QQLLKLPQEE GDHQIADAET AEEVKGRIRQ LLAKASYKQA IVLTREATSH FQESEPFSHT EPEENSFLNL LGLIFKGPEA STQDSHGDTD PGLTGSKDSP SVPEPEGSQS NDELVKQEML VQYLQDAYGF SQKITEAIGI ISKMMYENTT TVVQEVIEFF VMVFQFGVPQ

Product Details

	ALFGVRRMLP LIWSKEPGVR EAVLNAYRQL YLNPKGDSAR AKAQTLIHNL SLLLVDASVG TIQCLEEILC EFVQKDEVKP AVIQLLWERA TEKVPSSPLE RCSSVMLLGM MARGKPEIVG SNLDALVRVG LDEKSPQDYR LAQQVCLAIA NISDRRKPSL GERHPPFRLP QEHRLFERLQ DMVTKGFAHP DPLWIPFKEV AVTLTYQLAE SPDVLCAQML QGCAKQVLEK LEKNATEADP KETAPRLPTF LLMNLLSLAG DVALQQLVHL EQAVSGELGR RRVLREEQEH RAKEPKEKTA SSETTMEEEL GLVGGATADD TEAELIRSIC EKELLDGNQV LAAFVPLLLK VCNNPGLYSN 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 EEFETGQGGS QRALSAKKPS AVSRLQPLTS VDSDNDFVTP KPRRTKPGRP QTQQRKKSQR KAKVVFLSDE SSEDELSAEM TEEETPKRTT PIRRASGRRH RS **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	NCAPD2

Target Details

Alternative Name:	Ncapd2 (NCAPD2 Products)
Background:	Condensin complex subunit 1 (Chromosome condensation-related SMC-associated protein 1) (Chromosome-associated protein D2) (mCAP-D2) (Non-SMC condensin I complex subunit D2) (XCAP-D2 homolog),FUNCTION: 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. 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 non-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:Q15021}.
Molecular Weight:	155.7 kDa
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.
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.
Expiry Date:	12 months

