Datasheet for ABIN7553503

NCAPD3 Protein (AA 1-1498) (His tag)

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Overview

Quantity:	1 mg
Target:	NCAPD3
Protein Characteristics:	AA 1-1498
Origin:	Human
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:	MVALRGLGSG LQPWCPLDLR LEWVDTVWEL DFTETEPLDP SIEAEIIETG LAAFTKLYES LLPFATGEHG SMESIWTFFI ENNVSHSTLV ALFYHFVQIV HKKNVSVQYR EYGLHAAGLY FLLLEVPGSV ANQVFHPVMF DKCIQTLKKS WPQESNLNRK RKKEQPKSSQ ANPGRHRKRG KPPRREDIEM DEIIEEQEDE NICFSARDLS QIRNAIFHLL KNFLRLLPKF SLKEKPQCVQ NCIEVFVSLT NFEPVLHECH VTQARALNQA KYIPELAYYG LYLLCSPIHG EGDKVISCVF HQMLSVILML EVGEGSHRAP LAVTSQVINC RNQAVQFISA LVDELKESIF PVVRILLQHI CAKVVDKSEY RTFAAQSLVQ LLSKLPCGEY AMFIAWLYKY SRSSKIPHRV FTLDVVLALL ELPEREVDNT LSLEHQKFLK HKFLVQEIMF DRCLDKAPTV RSKALSSFAH CLELTVTSAS ESILELLINS PTFSVIESHP GTLLRNSSAF SYQRQTSNRS EPSGEINIDS SGETVGSGER CVMAMLRRRI RDEKTNVRKS ALQVLVSILK HCDVSGMKED LWILQDQCRD PAVSVRKQAL QSLTELLMAQ PRCVQIQKAW LRGVVPVVMD CESTVQEKAL EFLDQLLLQN IRHHSHFHSG DDSQVLAWAL LTLLTTESQE LSRYLNKAFH IWSKKEKFSP TFINNVISHT GTEHSAPAWM

	LLSKIAGSSP RLDYSRIIQS WEKISSQQNP NSNTLGHILC VIGHIAKHLP KSTRDKVTDA VKCKLNGFQW SLEVISSAVD ALQRLCRASA ETPAEEQELL TQVCGDVLST CEHRLSNIVL KENGTGNMDE DLLVKYIFTL GDIAQLCPAR VEKRIFLLIQ SVLASSADAD HSPSSQGSSE APASQPPPQV RGSVMPSVIR AHAIITLGKL CLQHEDLAKK SIPALVRELE VCEDVAVRNN VIIVMCDLCI RYTIMVDKYI PNISMCLKDS DPFIRKQTLI LLTNLLQEEF VKWKGSLFFR FVSTLIDSHP DIASFGEFCL AHLLLKRNPV MFFQHFIECI FHFNNYEKHE KYNKFPQSER EKRLFSLKGK SNKERRMKIY KFLLEHFTDE QRFNITSKIC LSILACFADG ILPLDLDASE LLSDTFEVLS SKEIKLLAMR SKPDKDLLME EDDMALANVV MQEAQKKLIS QVQKRNFIEN IIPIIISLKT VLEKNKIPAL RELMHYLREV MQDYRDELKD FFAVDKQLAS ELEYDMKKYQ EQLVQEQELA KHADVAGTAG GAEVAPVAQV ALCLETVPVP AGQENPAMSP AVSQPCTPRA SAGHVAVSSP TPETGPLQRL LPKARPMSLS TIAILNSVKK AVESKSRHRS RSLGVLPFTL NSGSPEKTCS QVSSYSLEQE SNGEIEHVTK RAISTPEKSI SDVTFGAGVS YIGTPRTPSS AKEKIEGRSQ GNDILCLSLP DKPPPQPQQW NVRSPARNKD TPACSRRSLR KTPLKTAN **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.**
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.
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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NCAPD3
Alternative Name:	NCAPD3 (NCAPD3 Products)
Background:	Condensin-2 complex subunit D3 (Non-SMC condensin II complex subunit D3) (hCAP-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 (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. 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 (PubMed:27737959). {ECO:0000269|PubMed:14532007, ECO:0000269|PubMed:27737959}.
Molecular Weight:	168.9 kDa
UniProt:	P42695

Application Details

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

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