Datasheet for ABIN3131703

CTNND2 Protein (AA 1-1247) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CTNND2
Protein Characteristics:	AA 1-1247
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNND2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MFARKQSGAA PFGAMPVPDQ PPSASEKNSS LSPGLNTSNG DGSETETTSA ILASVKEQEL QFERLTRELE AERQIVASQL ERCKLGSETG SMSSISSAGE QFHWQTQDGQ KDIEDELTTG LELVDSCIRS LQESGILDPQ DYSTSERPSL LSQSALQLNS KPEGSFQYPA SYHSNQTLAL GDTAPSQLPA RSTQARAAGQ SFSQGTTGRA GHLAGSEPAP PPPPPREPFA PSLGSAFHLP DAPPAAAALY YSSSTLPAPP RGGSPLTTTQ GGSPTKLQRG GSAPEGAAYA APRGSSPKQS PSRLAKSYST SSPINIVVSS AGLSPIRVTS PPTVQSTISS SPIHQLSSTI GTYATLSPTK RLVHASEQYS KHSQELYATA TLQRPGSLAA GSRASYSSQH GHLAPELRAL QSPEHHIDPI YEDRVYQKPP MRSLSQSQGD PLPPAHTGTF RTSTAPSSPG VDSVPLQRTG SQHGPQNAAA ATFQRASYAA GPASNYADPY RQLQYCASVD SPYSKSGPAL PPEGTLARSP SIDSIQKDPR EFGWRDPELP EVIQMLQHQF PSVQSNAAAY LQHLCFGDNK IKAEIRRQGG IQLLVDLLDH RMTEVHRSAC GALRNLVYGK ANDDNKIALK NCGGIPALVR LLRKTTDLEI RELVTGVLWN LSSCDALKMP IIQDALAVLT NAVIIPHSGW ENSPLQDDRK IQLHSSQVLR NATGCLRNVS

	SAGEEARRRM RECDGLTDAL LYVIQSALGS SEIDSKTVEN CVCILRNLSY RLAAETSQGQ HMGTDELDGL LCGETNGKDT ESSGCWGKKK KKKKSQDQWD GVGPLPDCAE PPKGIQMLWH PSIVKPYLTL LSECSNPDTL EGAAGALQNL AAGSWKGWAE DVAGMAYALR SLPEGAPCLP QWSVYIRAAV RKEKGLPILV ELLRIDNDRV VCAVATALRN MALDVRNKEL IGKYAMRDLV HRLPGGNNSN NSGSKAMSDD TVTAVCCTLH EVITKNMENA KALRDAGGIE KLVGISKSKG DKHSPKVVKA ASQVLNSMWQ YRDLRSLYKK DGWSQYHFVA SSSTIERDRQ RPYSSSRTPS ISPVRVSPNN RSASAPASPR EMISLKERKT DYESAGNNAT YHGTKGEHTS RKDTMTAQNT GVSTLYRNSY GAPAEDIKQN QVSTQPVPQE PSRKDYETYQ PFPNSTRNYD ESFFEDQVHH RPPASEYTMH LGLKSTGNYV DFYSAARPYS ELNYETSHYP ASPDSWV **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 Ctnnd2 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 receival 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.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 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

Product Details

	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:	CTNND2
Alternative Name:	Ctnnd2 (CTNND2 Products)
Background:	Has a critical role in neuronal development, particularly in the formation and/or maintenance of dendritic spines and synapses (PubMed:17993462) (PubMed:25807484). Involved in the regulation of canonical Wnt signaling (By similarity). It probably acts on beta-catenin turnover, facilitating beta-catenin interaction with GSK3B, phosphorylation, ubiquitination and degradation (PubMed:20623542). May be involved in neuronal cell adhesion and tissue morphogenesis and integrity by regulating adhesion molecules. Functions as a transcriptional activator when bound to ZBTB33 (PubMed:15282317). {ECO:0000250|UniProtKB:Q9UQB3, ECO:0000269|PubMed:15282317, ECO:0000269|PubMed:17993462, ECO:0000269|PubMed:20623542, ECO:0000269|PubMed:25807484, ECO:0000269|PubMed:9971746}.
Molecular Weight:	136.0 kDa Including tag.
UniProt:	O35927

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 gurantee 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

Application Details

	options with you in detail to assure that you receive your protein of interest.
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

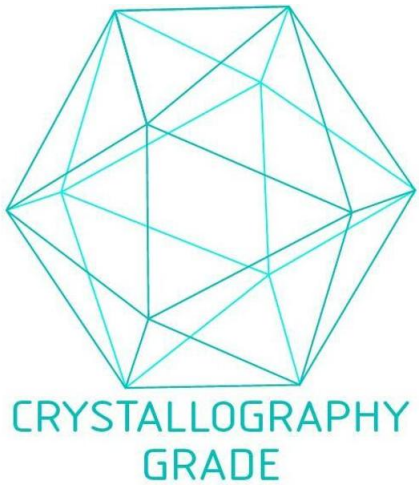

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process