antibodies

Datasheet for ABIN3136995 CNTNAP4 Protein (AA 28-1310) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	CNTNAP4
Protein Characteristics:	AA 28-1310
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNTNAP4 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	GNSYDCDEPL VSALPQASFS SSSELSSSHG PGFARLNRRD GAGGWSPLVS NKYQWLQIDL
	GERMEVTSVA TQGGYGSSNW VTSYLLMFSD SGRNWKQYRQ EDSIWGFSGN ANADSVVYYR
	LQPSIKARFL RFIPLEWNPK GRIGMRIEVF GCAYRSVVID LDGKSSLLYR FDQNSLSPIR
	DIISLKFKTM ESDGILLHRA GPAGDHITLE LRRGKLFLLI NSGDARLTSS STLINLTLGS
	LLDDQHWHSV LIQRLGKQVN FTVDEHRRHF HAQGEFNYLD LDYEISFGGI SAPAKSVSLP
	YKHFHGCLEN LFYNGVDVIG LVKEHSPQII TMGNASFSCS QPQSMPLTFL SPRSYLVLPA
	STKEEAISAS FQFRTWNKAG LLLFSELQLV SGSLLLLLSD GKLKLTLYQP GKSPSDITAG
	AGLGDGQWHS VSLSAKRNHL SVVVDGHISP ASPWLGPEQV NSGGVFYFGG CPDKGFGSKC
	KSPLGGFQGC MRLISINNKM VDLIAVQQGA LGNFSDLQID SCGISDRCLP NSCEHGGECS
	QSWSTFHCNC TNTGYTGATC HSSVYEQSCE AYKHQGNASG FYYIDSDGSG PLQPFLLYCN
	MTETAWTVMQ HNGSDLMRVR NTHSENAHTG VFEYTASMEQ LQAAINRAEH CQQELVYYCK
	KSRLVNQQDG SPRSWWVGRT NETQTYWGGS LPVHQKCTCG LEGNCIDAQY HCNCDADLNE

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3136995 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	specific reference buffer.
	The protein's absorbance will be measured in several dilutions and is measured against its
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	protein experts will do everything to make sure that you receive the protein you ordered.
	folded protein. With no financial risk on your end you can rest assured that our experienced
	When you order this made-to-order protein you will only pay upon receival of the correctly
	experiments or purification optimization).
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	(other companies might charge you for any performed steps in the expression process for
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	cannot be expressed or purified.
	made proteins from other companies is that there is no financial obligation in case the protein
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	experts in the lab will ensure that you receive a correctly folded protein.
	This protein is a made to order protein and will be made for the first time for your order. Our
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	to ensure crystallization grade.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Cntnap4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	EAVLKSELHI QNAVGENQKE YFF
	MDDREPLTHA IKSDSAVIGG LIAVVIFILL CVSAIAVRIY QQKRLYKRNE AKRSENVDSA
	GCLSAVQFSH IAPLKAALQP GPPAPVTVTG HVTESSCVAP SGTDATSRER THSFADHSGT
	IKINREEGMV FVEIDENTRR QTYLSSGTEF SAVKSLVLGR MLEYSDVDQE TALAAAHGFT
	FRTTRAPSLL LHMSSFYKEY LSIIIAKNGS LQIRYKLNKY HEPDVISFDL KSMADGQLHH
	CSSSAYAGPF CSKEISAYFG SGSSVIYNFQ ENYSLSKNSS FHAASFHGDM KLSREMIKFS
	RGFLGCIRSL QLNGMALDLE ERATVTPGVQ PGCRGHCGSY GKLCRHGGKC REKPSGFFCD
	HSPTHFNDNQ WHHVRVERNM KEASLRVDEL PPKIQAAPTD GHVLLQLNSQ LFVGGTATRQ
	FPTFHGELSA DVSFFFKTTA LSGVFLENLG ITDFIRIELR SPTTVTFSFD VGNGPFELSV

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3136995 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	CNTNAP4
Alternative Name:	Cntnap4 (CNTNAP4 Products)
Background:	Presynaptic protein involved in both dopaminergic synaptic transmission and GABAergic system, thereby participating in the structural maturation of inhibitory interneuron synapses. Involved in the dopaminergic synaptic transmission by attenuating dopamine release through a presynaptic mechanism. Also participates in the GABAergic system. {ECO:0000269 PubMed:24870235}.
Molecular Weight:	143.0 kDa Including tag.
UniProt:	Q99P47
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
	options with you in detail to assure that you receive your protein of interest.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3136995 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

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