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Datasheet for ABIN3117104 NrCAM Protein (AA 25-1304) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	NrCAM (NRCAM)
Protein Characteristics:	AA 25-1304
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NrCAM protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	QMISALEVPL DPKLLEDLVQ PPTITQQSPK DYIIDPRENI VIQCEAKGKP PPSFSWTRNG
	THFDIDKDPL VTMKPGTGTL IINIMSEGKA ETYEGVYQCT ARNERGAAVS NNIVVRPSRS
	PLWTKEKLEP ITLQSGQSLV LPCRPPIGLP PPIIFWMDNS FQRLPQSERV SQGLNGDLYF
	SNVLPEDTRE DYICYARFNH TQTIQQKQPI SVKVISVDEL NDTIAANLSD TEFYGAKSSR
	ERPPTFLTPE GNASNKEELR GNVLSLECIA EGLPTPIIYW AKEDGMLPKN RTVYKNFEKT
	LQIIHVSEAD SGNYQCIAKN ALGAIHHTIS VRVKAAPYWI TAPQNLVLSP GEDGTLICRA
	NGNPKPRISW LTNGVPIEIA PDDPSRKIDG DTIIFSNVQE RSSAVYQCNA SNEYGYLLAN
	AFVNVLAEPP RILTPANTLY QVIANRPALL DCAFFGSPLP TIEWFKGAKG SALHEDIYVL
	HENGTLEIPV AQKDSTGTYT CVARNKLGMA KNEVHLEIKD PTWIVKQPEY AVVQRGSMVS
	FECKVKHDHT LSLTVLWLKD NRELPSDERF TVDKDHLVVA DVSDDDSGTY TCVANTTLDS
	VSASAVLSVV APTPTPAPVY DVPNPPFDLE LTDQLDKSVQ LSWTPGDDNN SPITKFIIEY
	EDAMHKPGLW HHQTEVSGTQ TTAQLKLSPY VNYSFRVMAV NSIGKSLPSE ASEQYLTKAS

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	EPDKNPTAVE GLGSEPDNLV ITWKPLNGFE SNGPGLQYKV SWRQKDGDDE WTSVVVANVS
	KYIVSGTPTF VPYLIKVQAL NDMGFAPEPA VVMGHSGEDL PMVAPGNVRV NVVNSTLAEV
	HWDPVPLKSI RGHLQGYRIY YWKTQSSSKR NRRHIEKKIL TFQGSKTHGM LPGLEPFSHY
	TLNVRVVNGK GEGPASPDRV FNTPEGVPSA PSSLKIVNPT LDSLTLEWDP PSHPNGILTE
	YTLKYQPINS THELGPLVDL KIPANKTRWT LKNLNFSTRY KFYFYAQTSA GSGSQITEEA
	VTTVDEAGIL PPDVGAGKVQ AVNPRISNLT AAAAETYANI SWEYEGPEHV NFYVEYGVAG
	SKEEWRKEIV NGSRSFFGLK GLMPGTAYKV RVGAVGDSGF VSSEDVFETG PAMASRQVDI
	ATQGWFIGLM CAVALLILIL LIVCFIRRNK GGKYPVKEKE DAHADPEIQP MKEDDGTFGE
	YSDAEDHKPL KKGSRTPSDR TVKKEDSDDS LVDYGEGVNG QFNEDGSFIG QYSGKKEKEP
	AEGNESSEAP SPVNAMNSFV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human NRCAM 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	cells:

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	 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:	NrCAM (NRCAM)
Alternative Name:	NRCAM (NRCAM Products)
Background:	Cell adhesion protein that is required for normal responses to cell-cell contacts in brain and in
	the peripheral nervous system. Plays a role in neurite outgrowth in response to contactin
	binding. Plays a role in mediating cell-cell contacts between Schwann cells and axons. Plays a
	role in the formation and maintenance of the nodes of Ranvier on myelinated axons. Nodes of
	Ranvier contain clustered sodium channels that are crucial for the saltatory propagation of
	action potentials along myelinated axons. During development, nodes of Ranvier are formed by
	the fusion of two heminodes. Required for normal clustering of sodium channels at heminodes
	not required for the formation of mature nodes with normal sodium channel clusters. Required
	together with GLDN, for maintaining NFASC and sodium channel clusters at mature nodes of
	Ranvier. {ECO:0000250 UniProtKB:Q810U4}.
Molecular Weight:	142.3 kDa Including tag.
UniProt:	Q92823
Pathways:	Regulation of Cell Size
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

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Application Details

	though.
Comment:	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.
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

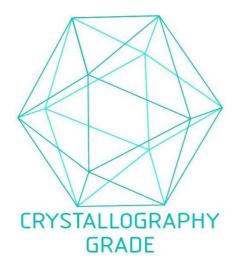


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process