antibodies

Datasheet for ABIN3116737 Neuroligin 2 Protein (NLGN2) (AA 15-835) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	Neuroligin 2 (NLGN2)
Protein Characteristics:	AA 15-835
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neuroligin 2 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	QRGGGGPGGG APGGPGLGLG SLGEERFPVV NTAYGRVRGV RRELNNEILG PVVQFLGVPY
	ATPPLGARRF QPPEAPASWP GVRNATTLPP ACPQNLHGAL PAIMLPVWFT DNLEAAATYV
	QNQSEDCLYL NLYVPTEDGP LTKKRDEATL NPPDTDIRDP GKKPVMLFLH GGSYMEGTGN
	MFDGSVLAAY GNVIVATLNY RLGVLGFLST GDQAAKGNYG LLDQIQALRW LSENIAHFGG
	DPERITIFGS GAGASCVNLL ILSHHSEGLF QKAIAQSGTA ISSWSVNYQP LKYTRLLAAK
	VGCDREDSAE AVECLRRKPS RELVDQDVQP ARYHIAFGPV VDGDVVPDDP EILMQQGEFL
	NYDMLIGVNQ GEGLKFVEDS AESEDGVSAS AFDFTVSNFV DNLYGYPEGK DVLRETIKFM
	YTDWADRDNG EMRRKTLLAL FTDHQWVAPA VATAKLHADY QSPVYFYTFY HHCQAEGRPE
	WADAAHGDEL PYVFGVPMVG ATDLFPCNFS KNDVMLSAVV MTYWTNFAKT GDPNQPVPQD
	TKFIHTKPNR FEEVVWSKFN SKEKQYLHIG LKPRVRDNYR ANKVAFWLEL VPHLHNLHTE
	LFTTTTRLPP YATRWPPRPP AGAPGTRRPP PPATLPPEPE PEPGPRAYDR FPGDSRDYST
	ELSVTVAVGA SLLFLNILAF AALYYKRDRR QELRCRRLSP PGGSGSGVPG GGPLLPAAGR

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	ELPPEEELVS LQLKRGGGVG ADPAEALRPA CPPDYTLALR RAPDDVPLLA PGALTLLPSG
	LGPPPPPPP SLHPFGPFPP PPPTATSHNN TLPHPHSTTR V
	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. Human NLGN2 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:
	 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.

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Product Details	
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	Neuroligin 2 (NLGN2)
Alternative Name:	NLGN2 (NLGN2 Products)
Background:	 Transmembrane scaffolding protein involved in cell-cell interactions via its interactions with neurexin family members. Mediates cell-cell interactions both in neurons and in other types of cells, such as Langerhans beta cells. Plays a role in synapse function and synaptic signal transmission, especially via gamma-aminobutyric acid receptors (GABA(A) receptors). Functions by recruiting and clustering synaptic proteins. Promotes clustering of postsynaptic GABRG2 and GPHN. Modulates signaling by inhibitory synapses, and thereby plays a role in controlling the ratio of signaling by excitatory and inhibitory synapses, but is not essential for normal signal frequency. May promote the initial formation of synapses, but is not essential for this. In vitro, triggers the de novo formation of presynaptic structures. Mediates cell-cell interactions between Langerhans beta cells and modulates insulin secretion (By similarity). {ECO:0000250}.
Molecular Weight:	90.6 kDa Including tag.
UniProt:	Q8NFZ4
Pathways:	Cell-Cell Junction Organization, Synaptic Membrane
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:	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

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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