antibodies

## Datasheet for ABIN3119058 Neurexin 1 Protein (NRXN1) (AA 31-1477) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	Neurexin 1 (NRXN1)
Protein Characteristics:	AA 31-1477
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neurexin 1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	LEFPGAEGQW TRFPKWNACC ESEMSFQLKT RSARGLVLYF DDEGFCDFLE LILTRGGRLQ
	LSFSIFCAEP ATLLADTPVN DGAWHSVRIR RQFRNTTLFI DQVEAKWVEV KSKRRDMTVF
	SGLFVGGLPP ELRAAALKLT LASVREREPF KGWIRDVRVN SSQVLPVDSG EVKLDDEPPN
	SGGGSPCEAG EEGEGGVCLN GGVCSVVDDQ AVCDCSRTGF RGKDCSQEDN NVEGLAHLMM
	GDQGKSKGKE EYIATFKGSE YFCYDLSQNP IQSSSDEITL SFKTLQRNGL MLHTGKSADY
	VNLALKNGAV SLVINLGSGA FEALVEPVNG KFNDNAWHDV KVTRNLRQHS GIGHAMVTIS
	VDGILTTTGY TQEDYTMLGS DDFFYVGGSP STADLPGSPV SNNFMGCLKE VVYKNNDVRL
	ELSRLAKQGD PKMKIHGVVA FKCENVATLD PITFETPESF ISLPKWNAKK TGSISFDFRT
	TEPNGLILFS HGKPRHQKDA KHPQMIKVDF FAIEMLDGHL YLLLDMGSGT IKIKALLKKV
	NDGEWYHVDF QRDGRSGTIS VNTLRTPYTA PGESEILDLD DELYLGGLPE NKAGLVFPTE
	VWTALLNYGY VGCIRDLFID GQSKDIRQMA EVQSTAGVKP SCSKETAKPC LSNPCKNNGM
	CRDGWNRYVC DCSGTGYLGR SCEREATVLS YDGSMFMKIQ LPVVMHTEAE DVSLRFRSQR

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AYGILMATTS RDSADTLRLE LDAGRVKLTV NLDCIRINCN SSKGPETLFA GYNLNDNEWH
TVRVVRRGKS LKLTVDDQQA MTGQMAGDHT RLEFHNIETG IITERRYLSS VPSNFIGHLQ
SLTFNGMAYI DLCKNGDIDY CELNARFGFR NIIADPVTFK TKSSYVALAT LQAYTSMHLF
FQFKTTSLDG LILYNSGDGN DFIVVELVKG YLHYVFDLGN GANLIKGSSN KPLNDNQWHN
VMISRDTSNL HTVKIDTKIT TQITAGARNL DLKSDLYIGG VAKETYKSLP KLVHAKEGFQ
GCLASVDLNG RLPDLISDAL FCNGQIERGC EGPSTTCQED SCSNQGVCLQ QWDGFSCDCS
MTSFSGPLCN DPGTTYIFSK GGGQITYKWP PNDRPSTRAD RLAIGFSTVQ KEAVLVRVDS
SSGLGDYLEL HIHQGKIGVK FNVGTDDIAI EESNAIINDG KYHVVRFTRS GGNATLQVDS
WPVIERYPAG RQLTIFNSQA TIIIGGKEQG QPFQGQLSGL YYNGLKVLNM AAENDANIAI
VGNVRLVGEV PSSMTTESTA TAMQSEMSTS IMETTTTLAT STARRGKPPT KEPISQTTDD
ILVASAECPS DDEDIDPCEP SSGGLANPTR AGGREPYPGS AEVIRESSST TGMVVGIVAA
AALCILILLY AMYKYRNRDE GSYHVDESRN YISNSAQSNG AVVKEKQPSS AKSSNKNKKN
KDKEYYV

# 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 NRXN1 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

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## Product Details

	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:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with
	different detergents (detergent screen). Samples are analyzed by Western blot.
	2. 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.
	3. 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:	Neurexin 1 (NRXN1)
Alternative Name:	NRXN1 (NRXN1 Products)
Background:	
background.	Cell surface protein involved in cell-cell-interactions, exocytosis of secretory granules and
Background.	Cell surface protein involved in cell-cell-interactions, exocytosis of secretory granules and regulation of signal transmission. Function is isoform-specific. Alpha-type isoforms have a long
	regulation of signal transmission. Function is isoform-specific. Alpha-type isoforms have a long
	regulation of signal transmission. Function is isoform-specific. Alpha-type isoforms have a long N-terminus with six laminin G-like domains and play an important role in synaptic signal
	regulation of signal transmission. Function is isoform-specific. Alpha-type isoforms have a long N-terminus with six laminin G-like domains and play an important role in synaptic signal transmission. Alpha-type isoforms play a role in the regulation of calcium channel activity and
Daekground.	regulation of signal transmission. Function is isoform-specific. Alpha-type isoforms have a long N-terminus with six laminin G-like domains and play an important role in synaptic signal transmission. Alpha-type isoforms play a role in the regulation of calcium channel activity and Ca(2+)-triggered neurotransmitter release at synapses and at neuromuscular junctions. They
	regulation of signal transmission. Function is isoform-specific. Alpha-type isoforms have a long N-terminus with six laminin G-like domains and play an important role in synaptic signal transmission. Alpha-type isoforms play a role in the regulation of calcium channel activity and Ca(2+)-triggered neurotransmitter release at synapses and at neuromuscular junctions. They play an important role in Ca(2+)-triggered exocytosis of secretory granules in pituitary gland.

similarity). {ECO:0000250}.

alpha-type and beta-type isoforms may play a role in the formation or maintenance of synaptic

junctions via their calcium-dependent interactions (via the extracellular domains) with

neuroligin family members, CBLN1 or CBLN2. In vitro, triggers the de novo formation of

isoforms were first identified as receptors for alpha-latrotoxin from spider venom (By

presynaptic structures. May be involved in specification of excitatory synapses. Alpha-type

Target Details	
Molecular Weight:	160.0 kDa Including tag.
UniProt:	Q9ULB1
Pathways:	Synaptic Membrane, Skeletal Muscle Fiber Development
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
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)



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

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