antibodies

Datasheet for ABIN3137033 Neurexin 1 Protein (NRXN1) (AA 31-1438) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Neurexin 1 (NRXN1)
Protein Characteristics:	AA 31-1438
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neurexin 1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	LEFPGAEGQW TRFPKWNACC ESEMSFQLKT RSARGLVLYF DDEGFCDFLE LILTRGGRLQ
	LSFSIFCAEP ATLLADTPVN DGAWHSVRIR RQFRNTTLYI DRAEAKWVEV KSKRRDMTVF
	SGLFVGGLPP ELRAAALKLT LASVREREPF KGWIRDVRVN SSQALPVDGG EVKLDDEPPN
	SGGGSPCEAG EEGEGGVCLN GGVCSVVDDQ AVCDCSRTGF RGKDCSQEDN NVEGLAHLMM
	GDQGKSKGKE EYIATFKGSE YFCYDLSQNP IQSSSDEITL SFKTLQRNGL MLHTGKSADY
	VNLALKNGAV SLVINLGSGA FEALVEPVNG KFNDNAWHDV KVTRNLRQHS GIGHAMVNKL
	HCSVTISVDG ILTTTGYTQE DYTMLGSDDF FYVGGSPSTA DLPGSPVSNN FMGCLKEVVY
	KNNDVRLELS RLAKQGDPKM KIHGVVAFKC ENVATLDPIT FETPESFISL PKWNAKKTGS
	ISFDFRTTEP NGLILFSHGK PRHQKDAKHP QMIKVDFFAI EMLDGHLYLL LDMGSGTIKI
	KALQKKVNDG EWYHVDFQRD GRSGTISVNT LRTPYTAPGE SEILDLDDEL YLGGLPENKA
	GLVFPTEVWT ALLNYGYVGC IRDLFIDGQS KDIRQMAEIQ STAGVKPSCS KETAKPCLSN
	PCKNNGMCRD GWNRYVCDCS GTGYLGRSCE REATVLSYDG SMFMKIQLPV VMHTEAEDVS

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	LRFRSQRAYG ILMATTSRDS ADTLRLELDA GRVKLTVNLD CIRINCNSSK GPETLFAGYN
	LNDNEWHTVR VVRRGKSLKL TVDDQQAMTG QMAGDHTRLE FHNIETGIIT ERRYLSSVPS
	NFIGHLQSLT FNGMAYIDLC KNGDIDYCEL NARFGFRNII ADPVTFKTKS SYVALATLQA
	YTSMHLFFQF KTTSLDGLIL YNSGDGNDFI VVELVKGYLH YVFDLGNGAN LIKGSSNKPL
	NDNQWHNVMI SRDTSNLHTV KIDTKITTQI TAGARNLDLK SDLYIGGVAK ETYKSLPKLV
	HAKEGFQGCL ASVDLNGRLP DLISDALFCN GQIERGCEGP STTCQEDSCS NQGVCLQQWD
	GFSCDCSMTS FSGPLCNDPG TTYIFSKGGG QITYKWPPND RPSTRADRLA IGFSTVQKEA
	VLVRVDSSSG LGDYLELHIH QGKIGVKFNV GTDDIAIEES NAIINDGKYH VVRFTRSGGN
	ATLQVDSWPV IERYPAGNND NERLAIARQR IPYRLGRVVD EWLLDKGRQL TIFNSQATII
	IGGKEQGQPF QGQLSGLYYN GLKVLNMAAE NDANIAIVGN VRLVGEVPSS MTTESTATAM
	QSEMSTSIME TTTTLATSTA RRGKPPTKEP ISQTTDDILV ASAECPSDDE DIDPCEPSSG
	GLANPTRVGG REPYPGSAEV IRESSSTT
	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.
Characteristics.	 Mouse 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

the Expasy's protparam tool to determine the absorption coefficient of each protein.

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Product Details 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 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:	Neurexin 1 (NRXN1)
Alternative Name:	Nrxn1 (NRXN1 Products)
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
	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.
	They may effect their functions at synapses and in endocrine cells via their interactions with
	proteins from the exocytotic machinery. Likewise, alpha-type isoforms play a role in regulating
	the activity of postsynaptic NMDA receptors, a subtype of glutamate-gated ion channels. Both
	alpha-type and beta-type isoforms may play a role in the formation or maintenance of synaptic
	junctions via their interactions (via the extracellular domains) with neuroligin family members,
	CBLN1 or CBLN2. In vitro, triggers the de novo formation of presynaptic structures. May be
	involved in specification of excitatory synapses. Alpha-type isoforms were first identified as
	receptors for alpha-latrotoxin from spider venom. {ECO:0000269 PubMed:12827191,
	ECO:0000269 PubMed:14983056, ECO:0000269 PubMed:16406382,
	ECO:0000269 PubMed:17035546, ECO:0000269 PubMed:21410790,
	ECO:0000269 PubMed:9430716}.
Molecular Weight:	155.7 kDa Including tag.

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Target Details	
UniProt:	Q9CS84
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:	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.
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

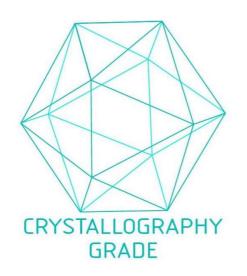


Image 1. "Crystallography Grade" protein due to multi-step,

protein-specific purification process

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