antibodies

Datasheet for ABIN3136229 GLDN Protein (AA 1-549) (rho-1D4 tag)





Overview

Quantity:	1 mg	
Target:	GLDN	
Protein Characteristics:	AA 1-549	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This GLDN protein is labelled with rho-1D4 tag.	
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)	

Product Details

Sequence:	MTRAAERGQG ATGWGLRGAL VAIALLSALN AAGTVFVLCQ WRGLSAALRA LEAQRGREQR
	EDSALRAFLA ELSRAPGRVP EPSQDPMSAA RNKRSHNGEP ASHIRAESQD MMMMMTYSMV
	PIRVMIDLCN STQGICLTGP PGPPGPPGAG GLPGHNGSDG QPGLQGPKGE KGAIGKRGKM
	GLPGATGNPG EKGEKGDAGE LGLPGNEGPP GQKGDKGDKG DVSNDVLLTG AKGDQGPPGP
	PGPPGPPGPP GSRRSKGPRP PNVFNSQCPG ETCVIPNDDT LVGRADEKAN ERHSPQTESM
	ITSIGNPAQV LKVRETFGTW MRESANKSDD RIWVTEHFSG IMVKEFKDLP ALLNSSFTLL
	HLPHYFHGCG HAVYNNSLYY HKGGSNTIVR FEFGKETPQT LKLENALYFD RKYLFANSKT
	YFNIAVDEKG IWIIYASSVD GSSILVAQLD ERTFSVTQHI NTTYPKSKAG NAFIARGILY
	VTDTKDTRVT FAFDLLGGKQ INANFDFRMS QSVLAMLSYN MRDQHLYSWE DGHLMLYPVQ
	FLSAASSQR
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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Product Details		
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Gldn 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.	
Sterility:	0.22 µm filtered	
Endotoxin Level:	Protein is endotoxin-free.	
Grade:	Crystallography grade	

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Target Details

Target:	GLDN	
Alternative Name:	Gldn (GLDN Products)	
Background:	Ligand for NRCAM and NFASC/neurofascin that plays a role in the formation and maintenance	
	of the nodes of Ranvier on myelinated axons. Mediates interaction between Schwann cell	
	microvilli and axons via its interactions with NRCAM and NFASC (PubMed:20188654). Nodes o	
	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	
	(PubMed:20188654). Required, together with NRCAM, for maintaining NFASC and sodium	
	channel clusters at mature nodes of Ranvier (PubMed:24719088).	
	{ECO:0000250 UniProtKB:Q80WL1, ECO:0000269 PubMed:20188654,	
	EC0:000269 PubMed:24719088}.	
Molecular Weight:	60.3 kDa Including tag.	
UniProt:	Q8BMF8	
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	

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 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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