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Datasheet for ABIN3135961 Protocadherin 8 Protein (PCDH8) (AA 30-1070) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	Protocadherin 8 (PCDH8)
Protein Characteristics:	AA 30-1070
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Protocadherin 8 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	KTVRYSTFEE DAPGTVIGTL AEDLHMKVSG DTSFRLMKQF NSSLLRVREG DGQLTVGDAG
	LDRERLCGPS PQCVLAFDVV SFSQEQFRLV HVEVEVRDVN DHAPRFPRAQ IPVEVSESAP
	VGTRIPLEVP VDEDVGANGL QSVRLAEPHS PFRVELQTRA DGAQCADLVL LQELDRESQA
	SYSLELVAQD GGRPPRSATA ALSVRVLDAN DHSPAFPQGA VAEVELAEDA PVGSLLLDLD
	AADPDEGPNG DVVFTFGART PPEARHLFRL DPRSGRLTLA GQVDYERQDT YELDVRAQDR
	GPGPRTATCK VIVRIRDVND NAPEISITPL AAPGAPATSP FAAAAAAAAL GGADAASSTG
	SGTQEAGITS LVPEGAARES LVALVSTSDR DSGANGQVRC ALYGHEHFRL QPAYAGSYLV
	VTAASLDRER IAEYNLTLVA EDRGTPPLRT VRPYTVRVGD ENDNAPIFTK PVYEVSVREN
	NPPGAYLATV AARDPDVGRN GQVTYRLVEA EVGRSGEAVS TYVSVDPATG AIYALRSFDY
	ETLRQLDVRV QASDGGSPQL SSNALVQVRV LDQNDHSPIL VHPAPANGSL EVAVPGRSTK
	DTAVARIQAR DADEGANGEL AFDLLQQEPR EAFSIGRHTG EIMLTGDLSQ EPPGRVFKAL
	LVISDGGRPP LTTTATVSFV VTAGGGSAVP ASSGSPEHSR PPGSRLAPSG PSLQWDTPLI

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	VIIVLAGSCT LLLAAIIAIA TTCNRRKKEV RKGGALREER PGAAGGGASA PGSPDETARG
	TGPRPNMFDV LTFPGSGKAP FGSPAADAPP PAVAAAEVPG SEGGSATGES ACHFEGQQRL
	RGAHAEPYGA SPGFGKEPAA PPVAVWKGHS FNTISGREAE KFSGKDSGKG DSDFNDSDSD
	ISGDALKKDL INHMQSGLWA CTAECKILGH SDRCWSPSCA GPNVHPPPHP PAQMSTFCKS
	TSLPRDPLRR DNYYQAQLPK TVGLQSVYEK VLHRDYDRTV TLLSPPRPGR LPDLQEIGVP
	LYESPPGSRY VSPKKGINEN 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. Mouse Pcdh8 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

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	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:	Protocadherin 8 (PCDH8)
Alternative Name:	Pcdh8 (PCDH8 Products)
Background:	Calcium-dependent cell-adhesion protein (By similarity). May play a role in activity-induced synaptic reorganization underlying long term memory (By similarity). Could be involved in CDH2 internalization through TAOK2/p38 MAPK pathway (By similarity). In hippocampal neurons, may play a role in the down-regulation of dendritic spines, maybe through its action on CDH2 endocytosis. {ECO:0000250, ECO:0000269 PubMed:17988630}.
Molecular Weight:	111.2 kDa Including tag.
UniProt:	Q7TSK3
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