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Datasheet for ABIN3135273 EPH Receptor A5 Protein (EPHA5) (AA 27-876) (rho-1D4 tag)



Overview

Quantity:	1 mg
Target:	EPH Receptor A5 (EPHA5)
Protein Characteristics:	AA 27-876
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPH Receptor A5 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	PASLAGCYSA PLKGPLWTCL LLCAALRTLL ASPSNEVNLL DSRTVMGDLG WIAFPKNGWE
	EIGEVDENYA PIHTYQVCKV MEQNQNNWLL TSWISNEGAS RIFIELKFTL RDCNSLPGGL
	GTCKETFNMY YFESDDENGR SIKENQYIKI DTIAADESFT ELDLGDRVMK LNTEVRDVGP
	LSKKGFYLAF QDVGACIALV SVRVYYKKCP SVVRHLAIFP DTITGADSSQ LLEVSGSCVN
	HSVTDDPPKM HCSAEGEWLV PIGKCMCKAG YEEKNGTCQA PSPVTNVKKG KIAKNSISLS
	WQEPDRPNGI ILEYEIKYFE KDQETSYTII KSKETSITAE GLKPASVYVF QIRARTAAGY
	GVFSRRFEFE TTPVSVAASN DQSQIPIIAV SVTVGVILLA VMIGFLLSGS CCDCGCGRAS
	SLCAVAHPSL IWRCGYSKAK QDPEEEKMHF HNGHIKLPGV RTYIDPHTYE DPNQAVHEFA
	KEIEASCITI ERVIGAGEFG EVCSGRLKLP GKRELPVAIK TLKVGYTEKQ RRDFLGEASI
	MGQFDHPNII HLEGVVTKSK PVMIVTEYME NGSLDTFLKK NDGQFTVIQL VGMLRGIAAG
	MKYLSDMGYV HRDLAARNIL INSNLVCKVS DFGLSRVLED DPEAAYTTRG GKIPIRWTAP
	EAIAFRKFTS SSDVWSYGIV MWEVVSYGER PYWEMTNQDV IKAVEEGYRL PSPMDCPAAL

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	YQLMLDCWQK DRNSRPKFDE IVNMLDKLIR NPSSLKTLVN ASSRVSTLLA EHGSLGSGAY
	RSVGEWLEAI KMGRYTEIFM ENGYSSMDAV AQVTLEDLRR LGVTLVGHQK KIMSSLQEMK
	VQMVNGMVPV
	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 Epha5 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:
	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.

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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:	EPH Receptor A5 (EPHA5)
Alternative Name:	Epha5 (EPHA5 Products)
Background:	Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino- hippocampal and hippocamposeptal pathways. Together with EFNA5 plays also a role in synaptic plasticity in adult brain through regulation of synaptogenesis. In addition to its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. {ECO:0000269 PubMed:12124402, ECO:0000269 PubMed:17448994}.
Molecular Weight:	95.6 kDa Including tag.
UniProt:	Q60629
Pathways:	RTK Signaling
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 gurante 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.

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Application Details

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)