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Datasheet for ABIN3136403 EPH Receptor B1 Protein (EPHB1) (AA 18-984) (rho-1D4 tag)



Overview

Quantity:	1 mg
Target:	EPH Receptor B1 (EPHB1)
Protein Characteristics:	AA 18-984
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPH Receptor B1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MEETLMDTRT ATAELGWTAN PASGWEEVSG YDENLNTIRT YQVCNVFEPN QNNWLLTTFI
	NRRGAHRIYT EMRFTVRDCS SLPNVPGSCK ETFNLYYYET DSVIATKKSA FWSEAPYLKV
	DTIAADESFS QVDFGGRLMK VNTEVRSFGP LTRNGFYLAF QDYGACMSLL SVRVFFKKCP
	SIVQNFAVFP ETMTGAESTS LVIARGTCIP NAEEVDVPIK LYCNGDGEWM VPIGRCTCKP
	GYEPENSVAC KACPAGTFKA SQEAEGCSHC PSNSRSPSEA SPICTCRTGY YRADFDPPEV
	ACTSVPSGPR NVISIVNETS IILEWHPPRE TGGRDDVTYN IICKKCRADR RSCSRCDDNV
	EFVPRQLGLT ECRVSISSLW AHTPYTFDIQ AINGVSSKSP FPPQHVSVNI TTNQAAPSTV
	PIMHQVSATM RSITLSWPQP EQPNGIILDY EIRYYEKEHN EFNSSMARSQ TNTARIDGLR
	PGMVYVVQVR ARTVAGYGKF SGKMCFQTLT DDDYKSELRE QLPLIAGSAA AGVVFVVSLV
	AISIVCSRKR AYSKEAAYSD KLQHYSTGRG SPGMKIYIDP FTYEDPNEAV REFAKEIDVS
	FVKIEEVIGA GEFGEVYKGR LKLPGKREIY VAIKTLKAGY SEKQRRDFLS EASIMGQFDH
	PNIIRLEGVV TKSRPVMIIT EFMENGALDS FLRQNDGQFT VIQLVGMLRG IAAGMKYLSE

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	MNYVHRDLAA RNILVNSNLV CKVSDFGLSR YLQDDTSDPT YTSSLGGKIP VRWTAPEAIA
	YRKFTSASDV WSYGIVMWEV MSFGERPYWD MSNQDVINAI EQDYRLPPPM DCPAALHQLM
	LDCWQKDRNS RPRFAEIVNT LDKMIRNPAS LKTVATITAV PSQPLLDRSI PDFTAFTTVD
	DWLSAIKMVQ YRDSFLTAGF TSLQLVTQMT SEDLLRIGVT LAGHQKKILS SIHSMRVQMN
	QSPSVMA
	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 Ephb1 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

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Product Details

	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:	EPH Receptor B1 (EPHB1)
Alternative Name:	Ephb1 (EPHB1 Products)
Background:	Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B 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.
	Cognate/functional ephrin ligands for this receptor include EFNB1, EFNB2 and EFNB3. During
	nervous system development, regulates retinal axon guidance redirecting ipsilaterally
	ventrotemporal retinal ganglion cells axons at the optic chiasm midline. This probably requires
	repulsive interaction with EFNB2. In the adult nervous system together with EFNB3, regulates
	chemotaxis, proliferation and polarity of the hippocampus neural progenitors. In addition to its
	role in axon guidance plays also an important redundant role with other ephrin-B receptors in
	development and maturation of dendritic spines and synapse formation. May also regulate
	angiogenesis. More generally, may play a role in targeted cell migration and adhesion. Upon
	activation by EFNB1 and probably other ephrin-B ligands activates the MAPK/ERK and the JNK
	signaling cascades to regulate cell migration and adhesion respectively.
	{ECO:0000269 PubMed:12971893, ECO:0000269 PubMed:14691139,
	ECO:0000269 PubMed:18057206, ECO:0000269 PubMed:18524895}.
Molecular Weight:	109.3 kDa Including tag.
UniProt:	Q8CBF3
Pathways:	RTK Signaling
Application Details	

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

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Application Details	
	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)