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Datasheet for ABIN3134805 EPH Receptor A2 Protein (EPHA2) (AA 26-977) (rho-1D4 tag)



Overview

Quantity:	1 mg
Target:	EPH Receptor A2 (EPHA2)
Protein Characteristics:	AA 26-977
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPH Receptor A2 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	KEVVLLDFAA MKGELGWLTH PYGKGWDLMQ NIMDDMPIYM YSVCNVVSGD QDNWLRTNWV
	YREEAERIFI ELKFTVRDCN SFPGGASSCK ETFNLYYAES DVDYGTNFQK RQFTKIDTIA
	PDEITVSSDF EARNVKLNVE ERMVGPLTRK GFYLAFQDIG ACVALLSVRV YYKKCPEMLQ
	SLARFPETIA VAVSDTQPLA TVAGTCVDHA VVPYGGEGPL MHCTVDGEWL VPIGQCLCQE
	GYEKVEDACR ACSPGFFKSE ASESPCLECP EHTLPSTEGA TSCQCEEGYF RAPEDPLSMS
	CTRPPSAPNY LTAIGMGAKV ELRWTAPKDT GGRQDIVYSV TCEQCWPESG ECGPCEASVR
	YSEPPHALTR TSVTVSDLEP HMNYTFAVEA RNGVSGLVTS RSFRTASVSI NQTEPPKVRL
	EDRSTTSLSV TWSIPVSQQS RVWKYEVTYR KKGDANSYNV RRTEGFSVTL DDLAPDTTYL
	VQVQALTQEG QGAGSKVHEF QTLSTEGSAN MAVIGGVAVG VVLLLVLAGV GLFIHRRRRN
	LRARQSSEDV RFSKSEQLKP LKTYVDPHTY EDPNQAVLKF TTEIHPSCVA RQKVIGAGEF
	GEVYKGTLKA SSGKKEIPVA IKTLKAGYTE KQRVDFLSEA SIMGQFSHHN IIRLEGVVSK
	YKPMMIITEY MENGALDKFL REKDGEFSVL QLVGMLRGIA SGMKYLANMN YVHRDLAARN

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	ILVNSNLVCK VSDFGLSRVL EDDPEATYTT SGGKIPIRWT APEAISYRKF TSASDVWSYG
	IVMWEVMTYG ERPYWELSNH EVMKAINDGF RLPTPMDCPS AIYQLMMQCW QQERSRRPKF
	ADIVSILDKL IRAPDSLKTL ADFDPRVSIR LPSTSGSEGV PFRTVSEWLE SIKMQQYTEH
	FMVAGYTAIE KVVQMSNEDI KRIGVRLPGH QKRIAYSLLG LKDQVNTVGI PI
	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 Epha2 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.
	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

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Product Details

	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 A2 (EPHA2)
Alternative Name:	Epha2 (EPHA2 Products)
Background:	Receptor tyrosine kinase which binds promiscuously membrane-bound 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.
	Activated by the ligand ephrin-A1/EFNA1 regulates migration, integrin-mediated adhesion,
	proliferation and differentiation of cells. Regulates cell adhesion and differentiation through
	DSG1/desmoglein-1 and inhibition of the ERK1/ERK2 signaling pathway. May also participate in
	UV radiation-induced apoptosis and have a ligand-independent stimulatory effect on
	chemotactic cell migration. During development, may function in distinctive aspects of pattern
	formation and subsequently in development of several fetal tissues. Involved for instance in
	angiogenesis, in early hindbrain development and epithelial proliferation and branching
	morphogenesis during mammary gland development. Engaged by the ligand ephrin-A5/EFNA5
	may regulate lens fiber cells shape and interactions and be important for lens transparency
	development and maintenance. With ephrin-A2/EFNA2 may play a role in bone remodeling
	through regulation of osteoclastogenesis and osteoblastogenesis.
	{ECO:0000269 PubMed:15054110, ECO:0000269 PubMed:16782872,
	EC0:0000269 PubMed:16849550, EC0:0000269 PubMed:18387945,
	EC0:0000269 PubMed:18948590, EC0:0000269 PubMed:19299512,
	ECO:0000269 PubMed:19321667}.
Molecular Weight:	107.5 kDa Including tag.
UniProt:	Q03145
Pathways:	RTK Signaling

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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: Handling	For Research Use only
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)