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Datasheet for ABIN3134806 EPH Receptor A2 Protein (EPHA2) (AA 560-977) (His tag)



Overview

Image

Quantity:	1 mg
Target:	EPH Receptor A2 (EPHA2)
Protein Characteristics:	AA 560-977
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPH Receptor A2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	HRRRRNLRAR QSSEDVRFSK SEQLKPLKTY VDPHTYEDPN QAVLKFTTEI HPSCVARQKV
	IGAGEFGEVY KGTLKASSGK KEIPVAIKTL KAGYTEKQRV DFLSEASIMG QFSHHNIIRL
	EGVVSKYKPM MIITEYMENG ALDKFLREKD GEFSVLQLVG MLRGIASGMK YLANMNYVHR
	DLAARNILVN SNLVCKVSDF GLSRVLEDDP EATYTTSGGK IPIRWTAPEA ISYRKFTSAS
	DVWSYGIVMW EVMTYGERPY WELSNHEVMK AINDGFRLPT PMDCPSAIYQ LMMQCWQQER
	SRRPKFADIV SILDKLIRAP DSLKTLADFD PRVSIRLPST SGSEGVPFRT VSEWLESIKM
	QQYTEHFMVA GYTAIEKVVQ MSNEDIKRIG VRLPGHQKRI AYSLLGLKDQ VNTVGIPI
	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 E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.

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	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:	Two step purification of proteins expressed in bacterial culture:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
	fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatography. 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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	EPH Receptor A2 (EPHA2)
Alternative Name:	Epha2 (EPHA2 Products)

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Target Details	
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.
	{EC0:0000269 PubMed:15054110, EC0:0000269 PubMed:16782872,
	ECO:0000269 PubMed:16849550, ECO:0000269 PubMed:18387945,
	ECO:0000269 PubMed:18948590, ECO:0000269 PubMed:19299512,
	ECO:0000269 PubMed:19321667}.
Molecular Weight:	48.5 kDa Including tag.
UniProt:	Q03145
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 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

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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