antibodies

Datasheet for ABIN3135295 EPHA1 Protein (AA 570-977) (His tag)

Image



Overview

Quantity:	1 mg
Target:	EPHA1
Protein Characteristics:	AA 570-977
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPHA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	RSRRGQRQRQ QRQRERTTNV DREDKLWLKP YVDLQAYEDP AQGALDFAQE LDPAWLIVDT
	VIGEGEFGEV YRGALRLPSQ DCKTVAIKTL KDTSPDGYWW NFLREATIMG QFNHPHILRL
	EGVITKRKPI MIITEFMENG ALDAFLKERE DQLAPGQLVA MLLGIASGMN CLSGHNYVHR
	DLAARNILVN QNLCCKVSDF GLTRLLDDFD GTYETQGGKI PIRWTAPEAI AHRIFTTASD
	VWSFGIVMWE VLSFGDKPYG EMSNQEVMKS IEDGYRLPPP VDCPAPLYEL MKNCWAYDRA
	RRPHFLQLQA HLEQLLTDPH SLRTIANFDP RVTLRLPSLS GSDGIPYRSV SEWLESIRMK
	RYILHFRSAG LDTMECVLEL TAEDLTQMGI TLPGHQKRIL CSIQGFKD
	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 Epha1 Protein (raised in Insect Cells) 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 baculovirus infected SF9 insect cells:
	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:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	EPHA1
Alternative Name:	Epha1 (EPHA1 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.
	Binds with a low affinity EFNA3 and EFNA4 and with a high affinity to EFNA1 which most
	probably constitutes its cognate/functional ligand. Upon activation by EFNA1 induces cell
	attachment to the extracellular matrix inhibiting cell spreading and motility through regulation
	of ILK and downstream RHOA and RAC. Plays also a role in angiogenesis and regulates cell
	proliferation. May play a role in apoptosis. {ECO:0000269 PubMed:18802966}.
Molecular Weight:	47.6 kDa Including tag.
UniProt:	Q60750
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)

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Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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