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EPHA1 Protein (AA 27-977) (rho-1D4 tag)



Image



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Overview

Quantity:	1 mg
Target:	EPHA1
Protein Characteristics:	AA 27-977
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPHA1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

EEVTLMDTST AQGELGWLLD PPETGWSEVQ QMLNGTPLYM YQDCPIQEGG DTDHWLRSNW IYRGEEASRI YVELQFTVRD CKSFPGAGP LGCKETFNLF YMESDQDVGI QLRRPLFQKV TTVAADQSFT IRDLASGSVK LNVERCSLGH LTRRGLYLAF HNPGSCVALV SVRVFYQRCA ETVHGLAHFP DTLPGPGGLV EVAGTCLSHA QISLGSSGTP RMHCSPDGEW LVPVGQCQCE PGYEESSGNV GCTACPTGFY RVDMNTLRCL KCPQHSIAES EGSTICTCEN GHYRAPGEGP QVACTRPPSA PQNLSFSTSG TQLSLRWEPP RDTGGRHDIR YSVECLQCRG IAQDGGPCQP CGKGVHFSPA ASGLTTSTVQ VQGLEPYANY TFTVKSQNRV SGLDSSSPSS ASLSINMGHA ESLSGLSLKL VKKEPRQLEL TWAGSRPRNP GGNLSYELHV LNQDEEWHQM VLEPRVLLTK LQPDTTYIVR VRTLTPLGPG PFSPDHEFRT SPPVSRSLTG GEIVAVIFGL LLGIALLIGI YVFRSRRGQR QRQQRQRERT TNVDREDKLW LKPYVDLQAY EDPAQGALDF AQELDPAWLI VDTVIGEGEF GEVYRGALRL PSQDCKTVAI KTLKDTSPDG YWWNFLREAT IMGQFNHPHI LRLEGVITKR KPIMIITEFM ENGALDAFLK EREDQLAPGQ LVAMLLGIAS GMNCLSGHNY

VHRDLAARNI LVNQNLCCKV SDFGLTRLLD DFDGTYETQG GKIPIRWTAP EAIAHRIFTT
ASDVWSFGIV MWEVLSFGDK PYGEMSNQEV MKSIEDGYRL PPPVDCPAPL YELMKNCWAY
DRARRPHFLQ LQAHLEQLLT DPHSLRTIAN FDPRVTLRLP SLSGSDGIPY RSVSEWLESI
RMKRYILHFR SAGLDTMECV LELTAEDLTQ MGITLPGHQK RILCSIQGFK D

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.
- 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

Product Details

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:	EPHA1
Alternative Name:	Epha1 (EPHA1 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. 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:	106.9 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)

Images

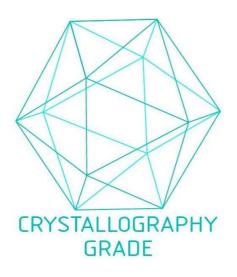


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process