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Datasheet for ABIN3135273 EPH Receptor A5 Protein (EPHA5) (AA 27-876) (rho-1D4 tag)



Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | EPH Receptor A5 (EPHA5) |
| Protein Characteristics: | AA 27-876 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This EPH Receptor A5 protein is labelled with rho-1D4 tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys) |

Product Details

| Sequence: | PASLAGCYSA PLKGPLWTCL LLCAALRTLL ASPSNEVNLL DSRTVMGDLG WIAFPKNGWE |
|-----------|---|
| | EIGEVDENYA PIHTYQVCKV MEQNQNNWLL TSWISNEGAS RIFIELKFTL RDCNSLPGGL |
| | GTCKETFNMY YFESDDENGR SIKENQYIKI DTIAADESFT ELDLGDRVMK LNTEVRDVGP |
| | LSKKGFYLAF QDVGACIALV SVRVYYKKCP SVVRHLAIFP DTITGADSSQ LLEVSGSCVN |
| | HSVTDDPPKM HCSAEGEWLV PIGKCMCKAG YEEKNGTCQA PSPVTNVKKG KIAKNSISLS |
| | WQEPDRPNGI ILEYEIKYFE KDQETSYTII KSKETSITAE GLKPASVYVF QIRARTAAGY |
| | GVFSRRFEFE TTPVSVAASN DQSQIPIIAV SVTVGVILLA VMIGFLLSGS CCDCGCGRAS |
| | SLCAVAHPSL IWRCGYSKAK QDPEEEKMHF HNGHIKLPGV RTYIDPHTYE DPNQAVHEFA |
| | KEIEASCITI ERVIGAGEFG EVCSGRLKLP GKRELPVAIK TLKVGYTEKQ RRDFLGEASI |
| | MGQFDHPNII HLEGVVTKSK PVMIVTEYME NGSLDTFLKK NDGQFTVIQL VGMLRGIAAG |
| | MKYLSDMGYV HRDLAARNIL INSNLVCKVS DFGLSRVLED DPEAAYTTRG GKIPIRWTAP |
| | EAIAFRKFTS SSDVWSYGIV MWEVVSYGER PYWEMTNQDV IKAVEEGYRL PSPMDCPAAL |

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| | YQLMLDCWQK DRNSRPKFDE IVNMLDKLIR NPSSLKTLVN ASSRVSTLLA EHGSLGSGAY |
|------------------|--|
| | RSVGEWLEAI KMGRYTEIFM ENGYSSMDAV AQVTLEDLRR LGVTLVGHQK KIMSSLQEMK |
| | VQMVNGMVPV |
| | 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. |
| Characteristics: | Mouse Epha5 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 |
| | Western blot. |

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| 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 A5 (EPHA5) |
| Alternative Name: | Epha5 (EPHA5 Products) |
| Background: | Receptor tyrosine kinase which binds promiscuously GPI-anchored 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 Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino- hippocampal and hippocamposeptal pathways. Together with EFNA5 plays also a role in synaptic plasticity in adult brain through regulation of synaptogenesis. In addition to its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. {ECO:0000269 PubMed:12124402, ECO:0000269 PubMed:17448994}. |
| Molecular Weight: | 95.6 kDa Including tag. |
| UniProt: | Q60629 |
| 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 gurante 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. |

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Application Details

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) |