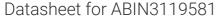
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ROBO1 Protein (AA 26-1651) (rho-1D4 tag)



Image



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Overview

Quantity:	1 mg
Target:	ROBO1
Protein Characteristics:	AA 26-1651
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ROBO1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

QLIPDPEDVE RGNDHGTPIP TSDNDDNSLG YTGSRLRQED FPPRIVEHPS DLIVSKGEPA
TLNCKAEGRP TPTIEWYKGG ERVETDKDDP RSHRMLLPSG SLFFLRIVHG RKSRPDEGVY
VCVARNYLGE AVSHNASLEV AILRDDFRQN PSDVMVAVGE PAVMECQPPR GHPEPTISWK
KDGSPLDDKD ERITIRGGKL MITYTRKSDA GKYVCVGTNM VGERESEVAE LTVLERPSFV
KRPSNLAVTV DDSAEFKCEA RGDPVPTVRW RKDDGELPKS RYEIRDDHTL KIRKVTAGDM
GSYTCVAENM VGKAEASATL TVQEPPHFVV KPRDQVVALG RTVTFQCEAT GNPQPAIFWR
REGSQNLLFS YQPPQSSSRF SVSQTGDLTI TNVQRSDVGY YICQTLNVAG SIITKAYLEV
TDVIADRPPP VIRQGPVNQT VAVDGTFVLS CVATGSPVPT ILWRKDGVLV STQDSRIKQL
ENGVLQIRYA KLGDTGRYTC IASTPSGEAT WSAYIEVQEF GVPVQPPRPT DPNLIPSAPS
KPEVTDVSRN TVTLSWQPNL NSGATPTSYI IEAFSHASGS SWQTVAENVK TETSAIKGLK
PNAIYLFLVR AANAYGISDP SQISDPVKTQ DVLPTSQGVD HKQVQRELGN AVLHLHNPTV
LSSSSIEVHW TVDQQSQYIQ GYKILYRPSG ANHGESDWLV FEVRTPAKNS VVIPDLRKGV

NYEIKARPFF NEFQGADSEI KFAKTLEEAP SAPPQGVTVS KNDGNGTAIL VSWQPPPEDT ONGMVOEYKV WCLGNETRYH INKTVDGSTF SVVIPFLVPG IRYSVEVAAS TGAGSGVKSE PQFIQLDAHG NPVSPEDQVS LAQQISDVVK QPAFIAGIGA ACWIILMVFS IWLYRHRKKR NGLTSTYAGI RKVPSFTFTP TVTYQRGGEA VSSGGRPGLL NISEPAAQPW LADTWPNTGN NHNDCSISCC TAGNGNSDSN LTTYSRPADC IANYNNQLDN KQTNLMLPES TVYGDVDLSN KINEMKTFNS PNLKDGRFVN PSGQPTPYAT TQLIQSNLSN NMNNGSGDSG EKHWKPLGQQ KQEVAPVQYN IVEQNKLNKD YRANDTVPPT IPYNQSYDQN TGGSYNSSDR GSSTSGSQGH KKGARTPKVP KQGGMNWADL LPPPPAHPPP HSNSEEYNIS VDESYDQEMP CPVPPARMYL QQDELEEEED ERGPTPPVRG AASSPAAVSY SHQSTATLTP SPQEELQPML QDCPEETGHM QHQPDRRRQP VSPPPPRPI SPPHTYGYIS GPLVSDMDTD APEEEEDEAD MEVAKMQTRR LLLRGLEQTP ASSVGDLESS VTGSMINGWG SASEEDNISS GRSSVSSSDG SFFTDADFAQ AVAAAAEYAG LKVARRQMQD AAGRRHFHAS QCPRPTSPVS TDSNMSAAVM QKTRPAKKLK HQPGHLRRET YTDDLPPPPV PPPAIKSPTA QSKTQLEVRP VVVPKLPSMD ARTDRSSDRK GSSYKGREVL DGRQVVDMRT NPGDPREAQE QONDGKGRGN KAAKRDLPPA KTHLIQEDIL PYCRPTFPTS NNPRDPSSSS SMSSRGSGSR QREQANVGRR NIAEMQVLGG YERGEDNNEE **LEETES**

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.
- Human ROBO1 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.

Product Details

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.
- 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.

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:

ROB01

Alternative Name:

ROBO1 (ROBO1 Products)

Background:

Receptor for SLIT1 and SLIT2 that mediates cellular responses to molecular guidance cues in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development (PubMed:10102268, PubMed:24560577). Interaction with the intracellular domain of FLRT3 mediates axon attraction towards cells expressing NTN1 (PubMed:24560577). In axon growth cones, the silencing of the attractive effect of NTN1 by SLIT2 may require the formation of a ROBO1-DCC complex (By similarity). Plays a role in the regulation of cell migration via its interaction with MYO9B, inhibits MYO9B-mediated stimulation of RHOA GTPase activity, and thereby leads to increased levels of active, GTP-bound RHOA (PubMed:26529257). May be required for lung development (By similarity). {ECO:0000250|UniProtKB:089026, ECO:0000269|PubMed:10102268, ECO:0000269|PubMed:24560577,

ECO:0000269|PubMed:26529257, ECO:0000305}.

Target Details

Molecular Weight:	179.2 kDa Including tag.
UniProt:	Q9Y6N7
Pathways:	Positive Regulation of Endopeptidase Activity

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:	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)



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