

Datasheet for ABIN3118300

ROBO2 Protein (AA 22-1378) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	ROBO2
Protein Characteristics:	AA 22-1378
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ROBO2 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	SRLRQEDFPP RIVEHPSDVI VSKGEPTTLN CKAEGRPTPT IEWYKDGERV ETDKDDPRSH RMLLPSGSLF FLRIVHGRRS KPDEGSYVCV ARNYLGEAVS RNASLEVALL RDDFRQNPTD VVVAAGEPAI LECQPPRGHP EPTIYWKKDK VRIDDKEERI SIRGGKLMIS NTRKSDAGMY TCVGTNMVGE RDSDPAELTV FERPTFLRRP INQVVLEEEA VEFRCQVQGD PQPTVRWKKD DADLPRGRYD IKDDYTLRIK KTMSTDEGTY MCIAENRVGK MEASATLTVR APPQFVVRPR DQIVAQGRTV TFPCKETGNP QPAVFWQKEG SQNLLFPNQP QQPNSRCSVS PTGDLTITNI QRSDAGYYIC QALTVAGSIL AKAQLEVTDV LTDRPPPIIL QGPANQTLAV DGTALLKCKA TGDPLPVISW LKEGFTFPGR DPRATIQEQG TLQIKNLRIS DTGTYTCVAT SSSGETSWSA VLDVTEGAT ISKNYDLSDL PGPPSKPQVT DVTKNSVTLS WQPGTPGTLP ASAYIIIEAFS QSVSNSWQTV ANHVKTTLTYT VRGLRPNTIY LFMVRRAINPQ GLSDPSPMSD PVRTQDISPP AQGVDRHQVQ KELGDVLVRL HNPVVLTPPT VQVTWTVDRQ PQFIQGYRVM YRQTSGLQAT SSWQNLDKAV PTERSAVLVN LKKGVTYEIK VRPYFNEFQG MDESSEKTVRT TEEAPSAPPQ
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SVTVLTVGSY NSTSISVSWD PPPPDHQNGI IQEYKIWCLG NETRFHINKT VDAAIRSVII
GGLFPGIQYR VEVAASTSAG VGVKSEPQPI IIGRRNEVVI TENNNSITEQ ITDVVKQPAF
IAGIGGACWV ILMGFSIWLY WRRKKRKGLS NYAVTFQRGD GGLMSNGSRP GLLNAGDPSY
PWLADSWPAT SLPVNNSNSG PNEIGNFGRG DVLPPVPGQG DKTATMLSDG AIYSSIDFTT
KTSYNSSSQI TQATPYATTQ ILHSNSIHEL AVDLDPDQWK SSIQKQTDLM GFGYSLPDQN
KGNNGGKGGK KKKKNKNSSKP QKNNGSTWAN VPLPPPPVQP LPGTELEHYA VEQQENGYSY
DSWCPLPVQ TYLHQGLEDE LEEDDDRVT PPVRGVASSP AISFGQSTA TLTPSPREEM
QPMLQAHLDE LTRAYQFDIA KQTWIHQSNN QPPQPPVPL GYVSGALISD LETDVADDDA
DDEEEALEIP RPLRALDQTP GSSMDNLDSS VTGKFTSSQ RPRPTSPFST DSNTSAALSQ
SQRPRPTKKH KGGRMDQQA LPHRREGMTD EEALVPYSKP SFPSPGGHSS SGTASSKGST
GPRKTEVLRA GHQRNASDLL DIGYMGSNSQ GQFTGEL

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 ROBO2 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 receipt 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

Product Details

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.

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: ROB02

Alternative Name: ROB02 ([ROB02 Products](#))

Background: Receptor for SLIT2, and probably SLIT1, which are thought to act as molecular guidance cue in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development.

Molecular Weight: 150.0 kDa Including tag.

UniProt: [Q9HCK4](#)

Pathways: [Regulation of Cell Size](#)

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 guarantee 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.

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)

Images



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