

Datasheet for ABIN3094608

## PLXNB1 Protein (AA 20-1490) (His tag)



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### 1 Image

#### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | PLXNB1   |
| Protein Characteristics:      | AA 20-1490   |
| Origin:                       | Human  |
| Source:                       | Insect Cells   |
| Protein Type:                 | Recombinant  |
| Purification tag / Conjugate: | This PLXNB1 protein is labelled with His tag.                        |
| Application:                  | SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys) |

#### Product Details

|           |   |
|-----------|---|
| Sequence: | <p>LQPLPPTAFT PNGTYLQHLA RDPTSGTLYL GATNFLFQLS PGLQLEATVS TGPVLDSRDC</p> <p>LPPVMPDECP QAQPTNNPNQ LLLVSPGALV VCGSVHQGVC EQRRLGQLEQ LLLRPERPGD</p> <p>TQYVAANDPA VSTVGLVAQG LAGEPLLFVG RGYTSRGVGG GIPPITTRAL WPPDPQAAFS</p> <p>YEETAKLAVG RLSEYSHHFV SAFARGASAY FLFLRRDLQA QSRAFRAYVS RVCLRDQHYH</p> <p>SYVELPLACE GGRYGLIQAA AVATSREVAH GEVLFAAFSS AAPPTVGRPP SAAAGASGAS</p> <p>ALCAFPDDEV DRLANRTRDA CYTREGRAED GTEVAYIEYD VNSDCAQLPV DTLDAYPCGS</p> <p>DHTPSPMASR VPLEATPILE WPGIQLTAVA VTMEDGHTIA FLGDSQGGQLH RYVLGPGSDG</p> <p>HPYSTQSIQQ GSAVSRDLTF DGTFEHLYVM TQSTLLKVPV ASCAQHLDCA SCLAHRDPYC</p> <p>GWCVLLGRCS RRSECSRGQG PEQWLWSFQP ELGCLQVAAM SPANISREET REVFLSVPDL</p> <p>PPLWPGESYS CHFGEHQSPA LLTGSGVMCP SPDPSEAPVL PRGADYVSVS VELRFGAVVI</p> <p>AKTSLSFYDC VAVTELPSA QCQACVSSRW GCNWCVWQHL CTHKASCDAG PMVASHQSPL</p> <p>VSPDPPARGG PSPSPPTAPK ALATPAPDTL PVEPGAPSTA TASDISPGAS PSLLSPWGPW</p> |
|-----------|---|

AGSGSISSPG STGSPLHEEP SPPSPQNGPG TAVPAPTDPR PSATPEDLLA SPLSPSEVAA  
VPPADPGPEA LHPTVPLDLP PATVPATTFP GAMGSVKPAL DWLTREGGEL PEADWETGGD  
APAFSTSTLL SGDGDSELE GPPAPLILPS SLDYQYDTPG LWELEEATLG ASSCPCVESV  
QGSTLMPVHV EREIRLLGRN LHLFQDGPGR NECVMELEGL EVVVEARVEC EPPDQTQCHV  
TCQQHQLSYE ALQPELRVGL FLRRAGRLRV DSAEGLHVVL YDCSVGHGDC SRCQTAMPQY  
GCVWCEGERP RCVTREACGE AEAATQCPA PLIHSVEPLT GPVDGGTRVT IRGSNLGQHV  
QDVLGMVTVA GVPCAVDAQE YEVSSSLVCI TGASGEEVAG ATAVEVPGRG RGVSEHDFAY  
QDPKVHSIFP ARGPRAGGTR LTLNGSKLLT GRLEDIRVVV GDQPCHLLPE QQSEQLRCET  
SPRPTPATLP VAVWFGATER RLQRGQFKYT LDPNITSAGP TKSFLSGGRE ICVRGQNLDV  
VQTPRIRVTV VSRMLQPSQG LGRRRRVVPE TACSLGPS CSQQFEPPCHV NSSQLTCRT  
PALPLPEDP WVRVEFILDN LVFDFATLNP TPFSEADPT LQPLNPEDPT MPFRHKPGSV  
FSVEGENLDL AMSKEEVVAM IGDGPCVVK LTRHHLYCEP PVEQLPRHH ALREAPDSLP  
EFTVQMGNLR FSLGHVQYDG ESPGAFVAA Q

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human PLXNB1 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

## Product Details

|                  |  |
|------------------|--|
|                  | 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:<br><ol style="list-style-type: none"><li>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.</li><li>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.</li></ol> |
| 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:           | PLXNB1   |
| Alternative Name: | PLXNB1 ( <a href="#">PLXNB1 Products</a> )   |
| Background:       | Receptor for SEMA4D. Plays a role in RHOA activation and subsequent changes of the actin cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration.<br>{ECO:0000269 PubMed:12196628, ECO:0000269 PubMed:12198496,<br>ECO:0000269 PubMed:15210733, ECO:0000269 PubMed:19843518,<br>ECO:0000269 PubMed:20877282, ECO:0000269 PubMed:21912513}. |
| Molecular Weight: | 157.9 kDa Including tag.   |
| UniProt:          | <a href="#">O43157</a>   |

## 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