

## Plexin B1 (PLXNB1) Recombinant Protein | PLXNB1 recombinant protein

Recombinant Plexin B1 (PLXNB1)

|                               |                       |                                               |
|-------------------------------|-----------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA134124</b> | HOST<br><b>E.coli</b> | APPLICATIONS<br><b>Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|-----------------------------------------------|

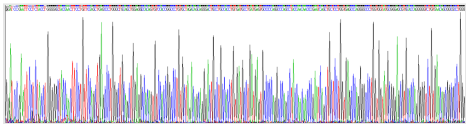
### PRODUCT SYNONYMS

Plexin B1 (PLXNB1); Recombinant Plexin B1 (PLXNB1); PLXNB1 recombinant protein

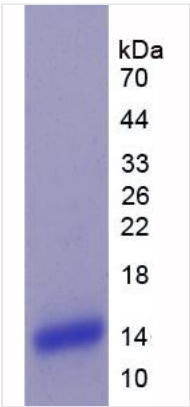
### PRODUCT SPECIFICATIONS

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification                                    | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                            | Freeze-dried powder; PBS, pH7.4, containing 0.01% Sarcosyl, 1mM DTT, 5% Trehalose and Proclin300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Concentration                                          | Original Concentration: 200ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Applicable Applications for PLXNB1 recombinant protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source                                                 | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Residues                                               | Leu47~Gln126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tags                                                   | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Subcellular Location                                   | Membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Predicted isoelectric point                            | 4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Phenomenon explanation                                 | <p>The possible reasons that the actual band size differs from the predicted are as follows:</p> <ol style="list-style-type: none"> <li>1.Splice variants: Alternative splicing may create different sized proteins from the same gene.</li> <li>2. Relative charge: The composition of amino acids may affects the charge of the protein.</li> <li>3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.</li> <li>4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.</li> <li>5. Polymerization of the target protein: Dimerization, multimerization etc.</li> </ol> |
| Usage                                                  | Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                                | <p><b>Storage:</b></p> <p>Avoid repeated freeze/thaw cycles.</p> <p>Store at 2-8°C for one month.</p> <p>Aliquot and store at -80°C for 12 months.</p> <p><b>Stability Test:</b></p> <p>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.</p>                                                                                                                                          |

IMAGES



Identification



SDS-PAGE

LYLG

ATNFLFQLSP GLQLEATVST GPVLDSRDCL PPVMPDECPQ AQPTNNPNQL  
LLVSPGALVV CGSVHQGVCE QRRLGQLEQL LLRPERPGDT QYVAANDPAV  
STVGLVAQGL AGEPLLFVGR GYT

Sequence

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 194272180                                                                                                         |
| NCBI GeneID                      | 5364                                                                                                              |
| NCBI Accession #                 | NP_001123554.1                                                                                                    |
| NCBI GenBank Nucleotide #        | NM_001130082.2                                                                                                    |
| UniProt Accession #              | O43157; Q6NY20; Q9UIV7; Q9UJ92; Q9UJ93; A6H8Y2                                                                    |
| Molecular Weight                 | Predicted Molecular Mass: 9.8kDa<br>Accurate Molecular Mass: 14kDa as determined by SDS-PAGE reducing conditions. |
| NCBI Official Full Name          | plexin-B1                                                                                                         |
| NCBI Official Synonym Full Names | plexin B1                                                                                                         |
| NCBI Official Symbol             | PLXNB1                                                                                                            |
| NCBI Official Synonym Symbols    | SEP; PLXN5; PLEXIN-B1                                                                                             |
| NCBI Protein Information         | plexin-B1; plexin 5; semaphorin receptor SEP                                                                      |
| UniProt Protein Name             | Plexin-B1                                                                                                         |
| UniProt Gene Name                | <b>PLXNB1</b>                                                                                                     |
| UniProt Synonym Gene Names       | KIAA0407; PLXN5; SEP                                                                                              |
| UniProt Entry Name               | PLXB1_HUMAN                                                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.