

Plexin-B1 (PLXNB1) Active Protein | PLXNB1 active protein

Recombinant Human Plexin-B1 (PLXNB1), partial (Active)

CATALOG #
AAA278910

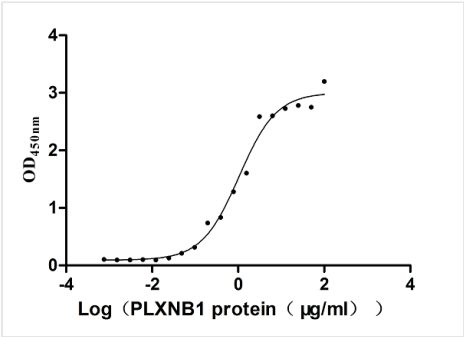
HOST
Mammalian Cell

PRODUCT SYNONYMS

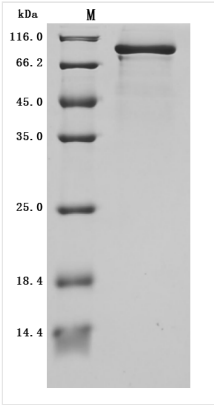
Plexin-B1 (PLXNB1); Recombinant Human Plexin-B1 (PLXNB1); partial (Active); (Semaphorin receptor SEP); PLXNB1 active protein

PRODUCT SPECIFICATIONS

Host	Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	20-535aa, Partial
Sequence	LQPLPPTAFT PNGTYLQHLA RDPTSGTLYL GATNFLFQLS PGLQLEATVS TGPVLDSRDC LPPVMPDECP QAQPTNNPNQ LLLVSPGALV VCGSVHQGVC EQRRLGQLEQ LLLRPERPGD TQYVAANDPA VSTVGLVAQG LAGEPLLFVG RGYTSRGVGG GIPPITRAL WPPDPQAAS YEETAKLAVG RLSEYSHHFV SAFARGASAY FLFLRRDLQA QSRAFRAYVS RVCLRDQHYY SYVELPLACE GGRYGLIQAA AVATSREVAH GEVLFAAFSS AAPPTVGRPP SAAAGASGAS ALCAFPDEV DRLANRTRDA CYTREGRAED GTEVAYIEYD VNSDCAQLPV DTLDAYPCGS DHTPSPMASR VPLEATPILE WPGIQLTAVA VTMEDGHTIA FLGDSQGQLH RYYLGPGSDG HPYSTQSIQQ GSAVSRDLTF DGTFEHLYVM TQSTLLKVPV ASCAQHLDCA SCLAHRDPYC GWCVLLGRCS RRSECSRGQG PEQWLWSFQP ELGCLQ
Species	Homo sapiens (Human)
Endotoxin	Less than 1.0EU/ug as determined by LAL method.
Relevance	Receptor for SEMA4D (PubMed:19843518, PubMed:20877282, PubMed:21912513). Plays a role in GABAergic synapse development. Mediates SEMA4A- and SEMA4D-dependent inhibitory synapse development. Plays a role in RHOA activation and subsequent changes of the actin cytoskeleton (PubMed:12196628, PubMed:15210733). Plays a role in axon guidance, invasive growth and cell migration (PubMed:12198496).
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human SEMA4D at 5ug/mL can bind human PLXNB1, the EC50 is 0.8179-1.357ug/mL.
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.



Bioactivity



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Product Categories/Family for PLXNB1 active protein	Neuroscience
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NCBI AND UNIPROT INFORMATION

NCBI GI #	118763993
NCBI GeneID	5364
UniProt Accession #	O43157; Q6NY20; Q9UIV7; Q9UJ92; Q9UJ93; A6H8Y2
Molecular Weight	214,411 Da
NCBI Official Full Name	PLXNB1 protein
NCBI Official Synonym Full Names	plexin B1
NCBI Official Symbol	PLXNB1
NCBI Official Synonym Symbols	SEP; PLXN5; PLEXIN-B1
NCBI Protein Information	plexin-B1
UniProt Protein Name	Plexin-B1
UniProt Gene Name	PLXNB1
UniProt Synonym Gene Names	KIAA0407; PLXN5; SEP

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.

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Online datasheet: <https://stage.aaabiotech.com/mammalian-cell-active-protein/plexin-b1-plxnb1/278910>