

Recombinant Human PLXNA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLXNA1-3125H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLXNA1 MS Standard C13 and N15-labeled recombinant protein (NP_115618) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Coreceptor for SEMA3A, SEMA3C, SEMA3F and SEMA6D. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down-stream signaling events in the cytoplasm.
Molecular Mass	211.1 kDa
AA Sequence	MPLPPRSLQVLLLLLLLLLLLLPGMWAEAGLPRAGGGSQPPFRTFSASDWGLTHLVV HEQTGEVYVGAVNRIYKLSGNLTLLRAHVTGPVEDNEKCYPPPSVQSCPHGLGSTD NVNLLLLDYAANRLLACGSASQGICQFLRLLDFKLGEPHHRKEHYLSSVQEAGSM AGVLIAGPPGQGQAKLFVGTPIDGKSEYFPTLSSRRLMANEEDADMFGFVYQDEFV SSQLKIPSDTLSKFPAFDIYVYSFRSEQFVYYLTLQLDTQLTSPDAAGEHFFTSKIVR LCVDDPKFYSYVEFPIGCEQAGVEYRLVQDAYLSRPGRALAHQLGLAEDEDVLFVTF AQQQKNRVKPPKESALCLFTLRAIKEKIKERIQSCYRGEGKLSLPWLLNKELGICINSP

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LQIDDDFCGQDFNQPLGGTVTIEGTPLFVDKDDGLTAVAAAYDYRGRTRVVFAGTRSG
RIRKILVDLSNPGGRPALAYESVVAQEGSPILRDLVLSPNHQYLYAMTEKQVTRVPVE
SCVQYTSCELCLGSRDPHCGWCVLHSICSRRDACERADEPQRFAADLLQCVQLTV
QPRNVSVTMSQVPLVLQAWNVPDLSAGVNCSFEDFTESESVLEDGRIHCRSPSARE
VAPITRGQGDQRVVKLYLKSSETGKKFASVDFVFNCSVHQSCLSCVNGSFPCHW
CKYRHVCTHNVADCAFLEGRVNVSEDCPQILPSTQIYVPVGVVKPITLAARNLPQPQ
SGQRGYECLFHIPGSPARVTALRFNSSLQCQNSSYSYEGNDVSDLPVNLSVWWN
GNFVIDNPQNIQAHLYKCPALRESCGLCLKADPRFECGWCAERRCSLRHHCAADT
PASWMHARHGSSRCTDPKILKLPETGPRQGGTRLTITGENLGLRFEDVRLGVRVG
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TFYRVSPSRGPLSGGTWIGIEGSHLNAGSDVAVSVGGRPCSFSWRNSREIRCLTPP
GQSPGSAPIIININRAQLTNPEVKYNYTEDPTILRIDPEWSINSGGTLLTGTNLATVR
EPRIRAKYGGIERENGCLVYNDTTMVCRAPSVANPVRSPPELGERPDELGFVMDNV
RSLLVLNSTSFLLYPPDPVLEPLSPTGELLEKPSPLILKGRNLLPPAPGNSRLNYTVLI
GSTPCTLTVSETQLLCEAPNLTGQHKVTVRAGGFESPGTLQVYSDSLTLPVAVGIG
GGGGLLLLIVAVLIAVKRKSADADRTLKRLQLQMDNLESVALECKEAFELQTDIH
ELTNDLDGAGIPFLDYRXYAMRVLFPGIEDHPVLKEMEYQANVEKSLTLFGQLLTKK
HFLTLFIRTLEAQRSFSMRDRGNVSLIMTALQGEMEYATGVLKQLLSDLIEKNLESK
NHPKLLLRRTESVAEKMLTNWFTFLLYKFLKECAGEPLFMYCAIKQQMEKGPIDAIT
GEARYSLSEDKLIRQQIDYKTLTLNCVNPENENAPEVPVKGLDCDVTQAKEKLLDA
AYKGVYPYSQRPKAADMDLEWRQGRMARIILQDEDVTTKIDNDWKRLNLAHYQVTD
GSSVALVPKQTSAYNISNSSTFTKSLSRYESMLRTASSPDSLRSRTPMITPDLESGTK
LWHLVKNHDHLDQREGDRGSKMVSEIYLTRLLATKGTQKFVDDLFEFIFSTAHRGS
ALPLAIKYMFDLDEQADKHQIHDADVHTWKSNCPLRFWVNVKPNPQFVFDIHK
SITDACLSVAQTFMDSCSTSEHKLGKDSKSNKLLYAKDIPNYKSWVERYADIK
PAISDQDMSAYLAEQSRLHLSQFNMSALHEIYSYITKYKDEILAALAEKDEQARRQL
RSKLEQVVDTMALSSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

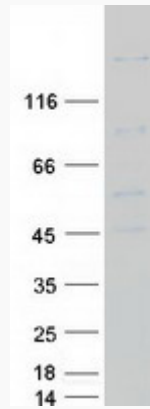
Gene Name	PLXNA1 plexin A1 [Homo sapiens (human)]
Official Symbol	PLXNA1
Synonyms	PLXNA1; plexin A1; PLXN1; plexin-A1; NOV; plexin 1; semaphorin receptor NOV; NOV; PLEXIN-A1; DKFZp761P19121;
Gene ID	5361
mRNA Refseq	NM_032242
Protein Refseq	NP_115618
MIM	601055
UniProt ID	Q9UIW2


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SDS-PAGE



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