

Recombinant Human plexin A2 Protein, GST-tagged

Cat. No. PLXNA2-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human cDNA FLJ11751 fis, clone HEMBA1005576, moderately similar to Mus musculus plexin 2 (H11Y , S17F) with N-GST tag was expressed in yeast.
Species	Human
Source	Yeast
ProteinLength	1743-1894aa
Description	This gene encodes a member of the plexin-A family of semaphorin co-receptors. Semaphorins are a large family of secreted or membrane-bound proteins that mediate repulsive effects on axon pathfinding during nervous system development. A subset of semaphorins are recognized by plexin-A/neuropilin transmembrane receptor complexes, triggering a cellular signal transduction cascade that leads to axon repulsion. This plexin-A family member is thought to transduce signals from semaphorin-3A and -3C.
Tag	N-GST
Form	Lyophilized powder
Molecular Mass	43 kDa
AA Sequence	MHSQVFSAFPYSLPLRFWVNVIKNPQFVFDIHKGSITDACLSVVAQTfMDSCSTSEH RLDKDSPSNKLLYAKDIPSYKSWVERYYYADIAKLPAISDQDMNAYLAEQSRLHAVEF

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	NMLSALNEIYSYVSKYSEELIGALEQDEQARRQRLAYKVEQLINAMSIES
Purity	≥85 %, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	Short term: 2 to 8 centigrade, one week after reconstitution Long term: -20 to -80 centigrade, twelve months from the date of receipt
Storage Buffer	Lyophilized from PBS, 6 % Trehalose, pH 7.4. The volume before lyophilization is 500µl/vial.
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 to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50 % of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50 %. Customers could use it as reference.

GENE INFORMATION

Gene Name	PLXNA2 plexin A2 [Homo sapiens (human)]
Official Symbol	PLXNA2
Synonyms	PLXNA2; plexin A2; PLXN2; plexin-A2; FLJ11751; FLJ30634; KIAA0463; OCT; plexin 2; semaphorin receptor OCT; transmembrane protein OCT
Gene ID	5362
mRNA Refseq	NM_025179

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Protein Refseq	NP_079455
MIM	601054
UniProt ID	Q9HAE7

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