

PLXNB1 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP21403b

Specification

PLXNB1 Blocking Peptide (C-term) - Product Information

Primary Accession

[O43157](#)**PLXNB1 Blocking Peptide (C-term) - Additional Information**

Gene ID 5364

Other Names

Plexin-B1, Semaphorin receptor SEP, PLXNB1, KIAA0407, PLXN5, SEP

Target/Specificity

The synthetic peptide sequence is selected from aa 1715-1729 of HUMAN PLXNB1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PLXNB1 Blocking Peptide (C-term) - Protein Information

Name PLXNB1

Synonyms KIAA0407, PLXN5, SEP

Function

Receptor for SEMA4D (PubMed: [19843518](http://www.uniprot.org/citations/19843518), PubMed: [20877282](http://www.uniprot.org/citations/20877282), PubMed: [21912513](http://www.uniprot.org/citations/21912513)). Plays a role in GABAergic synapse development (By similarity). Mediates SEMA4A- and SEMA4D-dependent inhibitory synapse development (By similarity). Plays a role in RHOA activation and subsequent changes of the actin cytoskeleton (PubMed: [12196628](http://www.uniprot.org/citations/12196628), PubMed: [15210733](http://www.uniprot.org/citations/15210733)). Plays a role in axon guidance, invasive growth and cell migration (PubMed: [12198496](http://www.uniprot.org/citations/12198496)).

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Secreted

Tissue Location

Highly expressed in fetal kidney, and at slightly lower levels in fetal brain, lung and liver

PLXNB1 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PLXNB1 Blocking Peptide (C-term) - Images**PLXNB1 Blocking Peptide (C-term) - 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.

PLXNB1 Blocking Peptide (C-term) - References

Ishikawa K.,et al.DNA Res. 4:307-313(1997).
Tamagnone L.,et al.Cell 99:71-80(1999).
Tamagnone L.,et al.Cell 104:321-321(2001).
Maestrini E.,et al.Proc. Natl. Acad. Sci. U.S.A. 93:674-678(1996).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.