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Neuropilin-1 Blocking Peptide
Catalog # PBV10399b

Specification

Neuropilin-1 Blocking Peptide - Product Information

Primary Accession	P97333
Other Accession	AAH60129
Gene ID	18186
Calculated MW	103000

Neuropilin-1 Blocking Peptide - Additional Information

Gene ID 18186

Application & Usage	**The peptide is used for blocking the antibody activity of Neuropilin-1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.**

Other Names
Neuropilin-1, A5 protein, CD304, Nrp1, Nrp

Target/Specificity
Neuropilin-1

Formulation
50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Neuropilin-1 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Neuropilin-1 Blocking Peptide - Protein Information

Name Nrp1 {ECO:0000312|MGI:MGI:106206}

Synonyms Nrp

Function
Receptor involved in the development of the cardiovascular system, in angiogenesis, in the

formation of certain neuronal circuits and in organogenesis outside the nervous system (By similarity). Mediates the chemorepulsant activity of semaphorins (PubMed:26503042). Recognizes a C-end rule (CendR) motif R/KXXR/K on its ligands which causes cellular internalization and vascular leakage (By similarity). Binds to semaphorin 3A (SEMA3A), the PLGF-2 isoform of PGF, the VEGF165 isoform of VEGFA and VEGFB (By similarity). Coexpression with KDR results in increased VEGF165 binding to KDR as well as increased chemotaxis. Regulates VEGF-induced angiogenesis (By similarity). Binding to VEGFA initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development (PubMed:26503042). Regulates mitochondrial iron transport via interaction with ABCB8/MITOSUR (By similarity).

Cellular Location
Mitochondrion membrane {ECO:0000250|UniProtKB:O14786}; Single-pass type I membrane protein. Cell membrane {ECO:0000250|UniProtKB:O14786}; Single- pass type I membrane protein. Cytoplasm {ECO:0000250|UniProtKB:O14786}

Tissue Location
Nervous system.

Neuropilin-1 Blocking Peptide - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Neuropilin-1 Blocking Peptide - Images