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Neuropilin-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10667

Specification

Neuropilin-1 Antibody - Product Information

Application	**WB**
Primary Accession	P97333
Other Accession	AAH60129
Reactivity	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**103000**

Neuropilin-1 Antibody - Additional Information

Gene ID 18186

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes ~100-130 kDa band of Neuropilin 1 in samples from human, mouse and rat, origins. A lower band ~50-70 kDa can also be detected, presumably to be the cleavage fragment of Neuropilin-1. Reactivity to other species has not been tested.**

Other Names
CD304 , DKFZp686A03134 , DKFZp781F1414 , NRP , NRP1 , VEGF165R , neuropilin-1

Target/Specificity
Neuropilin

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

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

Neuropilin-1 Antibody - 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 Antibody - 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 Antibody - Images

Neuropilin-1 Antibody - Background

Neuropilin 1 is a type 1 membrane-bound coreceptor to a tyrosine kinase receptor for both

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Vascular Endothelial Growth Factor and Semaphorin family members. Neuropilin 1 is invovled in axon growth and guidance, cell survival, migration, and invasion.