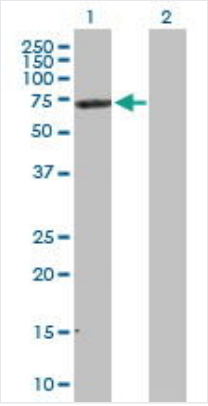
NRP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NRP1, Polyclonal Antibody
Full Product Name	NRP1 (VEGF165R, Neuropilin-1, Vascular Endothelial Cell Growth Factor 165 Receptor, CD304, DKFZp686A03134, DKFZp781F1414) (AP)
Product Gene Name	anti-NRP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NRP1.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri
OMIM	602069
3D Structure	ModBase 3D Structure for O14786
Immunogen	Full length human NRP1, aa1-251 (NP_001019800.1).
Immunogen Sequence	MERGLPLLCAVLALVLAPAGAFRNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLIQAPDPYQRIMINFNPHFDLEDRDCKYDYVEVFDGENENGHFR
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-NRP1 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-NRP1 antibody	Western Blot (WB)
Application Notes for anti-NRP1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NRP1 antibody	The membrane-bound isoform 1 is a receptor involved in the development of the cardiovascular system, in angiogenesis, in the formation of certain neu
Other Notes	Small volumes of anti-NRP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess

Searchable Terms for NRP1 purchase	MBS6387568 is an antibody targeting NRP1. Also known as NRP1 (VEGF165R, Neuropilin-1, Vascular Endothelial Cell Growth Factor 165 Receptor, C



Western Blot (WB) of anti-NRP1 antibody
Western Blot analysis of NRP1 expression in transfected 293T cell line by NRP1 polyclonal antibody. Lane 1: NRP1 transfected lysate (68.3kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NRP1. It may not necessarily be applicable to this product.

NCBI GI #	66864913
NCBI GeneID	8829
NCBI Accession #	NP_001019800.1
UniProt Primary Accession #	O14786
UniProt Related Accession #	O14786
GenBank Nucleotide #	NM_001024629
NCBI Official Full Name	neuropilin-1 isoform c
NCBI Official Synonym Full Names	neuropilin 1
NCBI Official Symbol	NRP1
NCBI Official Synonym Symbols	NP1; NRP; BDCA4; CD304; VEGF165R
UniProt Protein Name	Neuropilin-1
UniProt Synonym Protein Names	Vascular endothelial cell growth factor 165 receptor
Protein Family	NAP1-related protein
UniProt Gene Name	NRP1
UniProt Synonym Gene Names	NRP; VEGF165R
UniProt Entry Name	NRP1_HUMAN
NCBI Protein Information	neuropilin-1
NCBI Summary for NRP1	This gene encodes one of two neuropilins, which contain specific protein domains which allow them to participate in several different types of signaling pathways that control cell migration. Neuropilins contain a large N-terminal extracellular domain, made up of complement-binding, coagulation factor V/VIII, and meprin domains. These proteins also contains a short membrane-spanning domain and a small cytoplasmic domain. Neuropilins bind many ligands and various types of co-receptors; they affect cell survival, migration, and attraction. Some of the ligands and co-receptors bound by neuropilins are vascular endothelial growth factor (VEGF) and semaphorin family members. Several alternatively spliced transcript variants that encode different protein isoforms have been described for this gene. [provided by RefSeq, Oct 2011]

UniProt Comments for NRP1	NRP1: The membrane-bound isoform 1 is a 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. It mediates the chemorepulsant activity of semaphorins. It binds to semaphorin 3A, The PLGF-2 isoform of PGF, The VEGF-165 isoform of VEGF and VEGF-B. Coexpression with KDR results in increased VEGF-165 binding to KDR as well as increased chemotaxis. It may regulate VEGF-induced angiogenesis. Homodimer, and heterodimer with NRP2. Interacts with FER. Binds PLXNB1. The expression of isoforms 1 and 2 does not seem to overlap. Isoform 1 is expressed by the blood vessels of different tissues. In the developing embryo it is found predominantly in the nervous system. In adult tissues, it is highly expressed in heart and placenta; moderately in lung, liver, skeletal muscle, kidney and pancreas; and low in adult brain. Isoform 2 is found in liver hepatocytes, kidney distal and proximal tubules. Belongs to the neuropilin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: 10p12 Cellular Component: extracellular space; cell surface; focal adhesion; growth cone; cell soma; axon; early endosome; neurofilament; integral to membrane; plasma membrane; cytoplasmic vesicle; cytosol; receptor complex Molecular Function: heparin binding; vascular endothelial growth factor receptor activity; protein binding; semaphorin receptor activity; metal ion binding; growth factor binding; cytokine binding; coreceptor activity Biological Process: axon guidance; facial nerve structural organization; neuron migration; vestibulocochlear nerve structural organization; platelet-derived growth factor receptor signaling pathway; positive regulation of smooth muscle cell migration; negative regulation of axon extension involved in axon guidance; signal transduction; gonadotrophin-releasing hormone neuronal migration to the hypothalamus; cell-cell signaling; positive chemotaxis; branchiomotor neuron axon guidance; dendrite development; response to wounding; negative regulation of neuron apoptosis; angiogenesis; trigeminal nerve structural organization; axonal fasciculation; hepatocyte growth factor receptor signaling pathway; patterning of blood vessels; axon extension involved in axon guidance; positive regulation of peptidyl-tyrosine phosphorylation; organ morphogenesis; cell migration during sprouting angiogenesis; otic placode formation; positive regulation of axon extension involved in axon guidance; artery morphogenesis; positive regulation of endothelial cell proliferation; nerve development; sprouting angiogenesis; vascular endothelial growth factor receptor signaling pathway; retinal ganglion cell axon guidance
Research Articles on NRP1	**1.** as a consequence of miR-1247 downregulation, we observed a correlated increased expression level of neuropilin-1, a miR-1247 target involved as a coreceptor in the epidermal growth factor receptor signaling
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