



Rat NRP1 peptide (DAG-P1811)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Specificity	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
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the neuropilin family. Contains 2 CUB domains. Contains 2 F5/8 type C domains. Contains 1 MAM domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name [NRP1 neuropilin 1 \[Homo sapiens \(human\) \]](#)

Official Symbol	NRP1
Synonyms	NRP1; neuropilin 1; NP1; NRP; BDCA4; CD304; VEGF165R; neuropilin-1; transmembrane receptor; vascular endothelial cell growth factor 165 receptor;
Entrez Gene ID	8829
mRNA Refseq	NM_001024628.2
Protein Refseq	NP_001019799.1
UniProt ID	O14786
Chromosome Location	10p12
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CHL1 interactions, organism-specific biosystem; CRMPs in Sema3A signaling, organism-specific biosystem; Developmental Biology, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; L1CAM interactions, organism-specific biosystem; Neuropilin interactions with VEGF and VEGFR, organism-specific biosystem; SEMA3A-Ple
Function	coreceptor activity; cytokine binding; growth factor binding; growth factor binding; heparin binding; metal ion binding; protein binding; semaphorin receptor activity; vascular endothelial growth factor-activated receptor activity; vascular endothelial gr