

Rat Neuropilin-2 ELISA Kit | NRP2 elisa kit

Rat Neuropilin-2 PicoKine ELISA Kit

CATALOG #
AAA45859

REACTIVITY
Rat

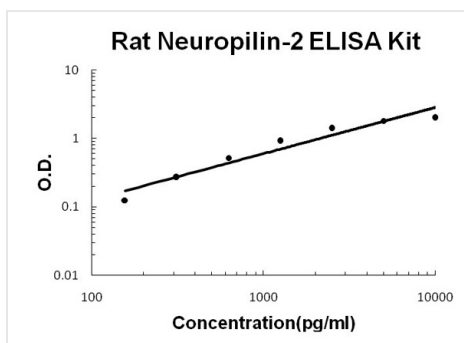
PRODUCT SYNONYMS

Neuropilin-2; Rat Neuropilin-2 PicoKine ELISA Kit; neuropilin 2; MGC126574; Neuropilin 2; Neuropilin2; NP 2; NP2; NPN 2; NPN2; NRP 2; Nrp2; NRP2_HUMAN; PRO2714; Receptor for VEGF165 and semaphorins class3; Vascular endothelial cell growth factor 165 receptor 2; Vascular endothelial growth factor 165 receptor 2; VEGF1265R2; VEGF165R2; NRP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Neuropilin-2
Sequence Length	925
Samples	Cell culture supernates, cell lysates and tissue homogenates.
Assay Type	Sandwich
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Rat Neuropilin-2 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for NRP2 elisa kit	Principle of the Assay: Rat Neuropilin-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Neuropilin-2 has been precoated onto 96-well plates. Standards(Expression system for standard: NSO; Immunogen sequence: Q23-D857) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Neuropilin-2 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Rat Neuropilin-2 amount of sample captured in plate. Background: NRP2(Neuropilin-2), also called Npn2 or VEGF165R2, encodes a member of the neuropilin family of receptor proteins. The soluble NRP2 was secreted as a 62.5-kD protein following transfection in Chinese hamster ovary cells. The NRP2 gene is mapped to 2q33.3. The NRP2 gene contains 17 exons and spans about 112 kb. This protein may play a role in cardiovascular development, axon guidance, and tumorigenesis. Mice with null mutations in genes encoding Semaphorin 3F, and its holoreceptor components Npn2 and plexin A3 (PLEXA3), exhibit increased dentate gyrus granule cell and cortical layer V pyramidal neuron spine number and size, and also aberrant spine distribution. Moreover, Semaphorin 3F promotes loss of spines and excitatory synapses in dissociated neurons in vitro, and in NRP2-null brain slices cortical layer V and dentate gyrus granule cells exhibit increased miniature excitatory postsynaptic current frequency. These disparate effects of secreted semaphorins are reflected in the restricted dendritic localization of NRP2 to apical dendrites and of Npn1 to all dendrites of cortical pyramidal neurons.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9296999
NCBI GeneID	81527
UniProt Accession #	O35276
Molecular Weight	103,897 Da
NCBI Official Full Name	Neuropilin-2
NCBI Official Synonym Full Names	neuropilin 2
NCBI Official Symbol	Nrp2
NCBI Protein Information	neuropilin-2; vascular endothelial cell growth factor 165 receptor 2
UniProt Protein Name	Neuropilin-2
UniProt Gene Name	Nrp2
UniProt Entry Name	NRP2_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.