

Rat Neuropilin-1 ELISA Kit | NRP1 elisa kit

Rat Neuropilin-1 PicoKine ELISA Kit

CATALOG #
AAA45867

REACTIVITY
Rat

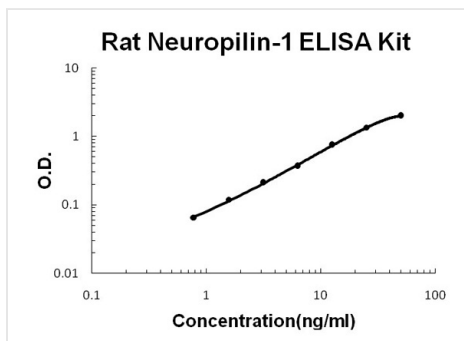
PRODUCT SYNONYMS

Neuropilin-1; Rat Neuropilin-1 PicoKine ELISA Kit; neuropilin 1; A5 protein; BDCA4; BLOOD DENDRITIC CELL ANTIGEN 4; CD 304; CD304; DKFZp686A03134; DKFZp781F1414; Neuropilin1; Neuropilin1 transmembrane receptor; NP1; NPN1; NRP 1; NRP; NRP1; NRP1_HUMAN; Vascular endothelial cell growth factor 165 receptor; VEGF165R; NRP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Neuropilin-1
Sequence Length	922
Samples	Cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA).
Assay Type	Sandwich
Detection Range	780pg/ml-50000pg/ml
Sensitivity	<20pg/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-1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for NRP1 elisa kit

Principle of the Assay: Rat Neuropilin-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Neuropilin-1 has been precoated onto 96-well plates. Standards(Expression system for standard: NSO; Immunogen sequence: F22-D854) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Neuropilin-1 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-1 amount of sample captured in plate.

Background: NRP1(Neuropilin 1) also known as NP1, NRP, BDCA4 or VEGF165R, is a membrane-bound coreceptor to a tyrosine kinase receptor for both vascular endothelial growth factor (VEGF) and semaphorin family members. NRP1 plays versatile roles in angiogenesis, axon guidance, cell survival, migration, and invasion. By somatic cell hybrid analysis, the NRP1 gene was mapped to chromosome 10. NRP1 binds PGF1 with lower affinity. NRP1-mediated interactions are a necessary element in the initiation of the primary immune response and offer another example, like that of agrin, of a molecule shared by neurologic and immunologic synapses. After T-cell contact with DC, T-cell NRP1 colocalized with CD3 in the immunologic synapse and, sometimes, also at the opposite pole of the T cell. Soluble NRP1 interacts in a homophilic fashion with NRP1 on both DC and T cells, and this binding can be inhibited by blocking antibodies to NRP1. Furthermore, selective NRP1 inhibition in this model suppressed neovascular formation substantially.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9297002
NCBI GeneID	246331
UniProt Accession #	Q9QWJ9
Molecular Weight	103,082 Da
NCBI Official Full Name	Neuropilin-1
NCBI Official Synonym Full Names	neuropilin 1
NCBI Official Symbol	Nrp1
NCBI Official Synonym Symbols	Nrp
NCBI Protein Information	neuropilin-1; vascular endothelial cell growth factor 165 receptor
UniProt Protein Name	Neuropilin-1
UniProt Gene Name	Nrp1
UniProt Entry Name	NRP1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/nrp1-rat-elisa-kits/neuropilin-1/45867>