ARG81894
Rat Neuropilin 1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81894-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81894-002	Standard	2 X 50 ng/vial	4°C
ARG81894-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81894-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81894-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81894-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81894-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81894-008	25X Wash buffer	20 ml	4°C
ARG81894-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81894-010	STOP solution	10 ml (Ready to use)	4°C
ARG81894-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81894 Rat Neuropilin 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Neuropilin 1 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Neuropilin 1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	390 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	780 - 50000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.3%; Inter-Assay CV: 7.6%
Alternate Names	BDCA4; VEGF165R; CD antigen CD304; Neuropilin-1; Vascular endothelial cell growth factor 165 receptor; CD304; NRP; NP1

Application Instructions

Assay Time	~ 5 hours

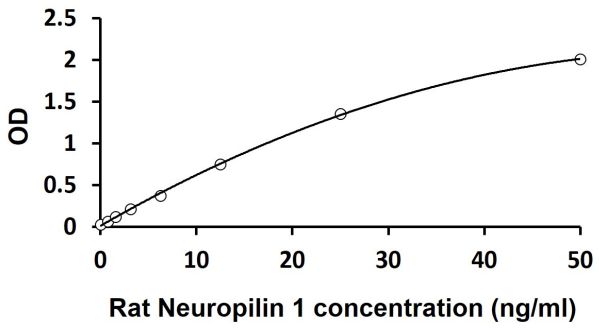
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	NRP1
Gene Full Name	neuropilin 1
Background	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]
Function	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. The soluble isoform 2 binds VEGF-165 and appears to inhibit its binding to cells. It may also induce apoptosis by sequestering VEGF-165. May bind as well various members of the semaphorin family. Its expression has an averse effect on blood vessel number and integrity. [UniProt]
Highlight	Related products: Neuropilin antibodies; Neuropilin ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData

Images



ARG81894 Rat Neuropilin 1 ELISA Kit standard curve image

ARG81894 Rat Neuropilin 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.