

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

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| 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 |

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| 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

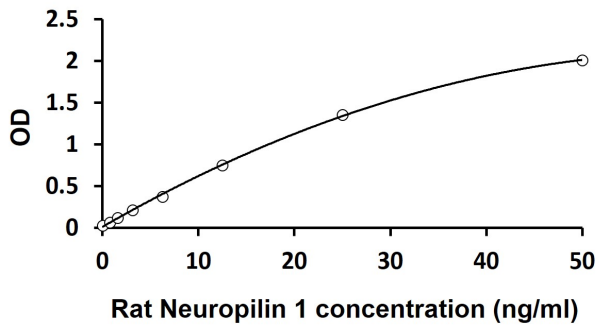
| | |
|------------|-----------|
| Assay Time | ~ 5 hours |
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Properties

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| 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

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|----------------|--|
| 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 | <p>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.</p> <p>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]</p> |
| Highlight | <p>Related products:</p> <p>Neuropilin antibodies; Neuropilin ELISA Kits;</p> <p>New ELISA data calculation tool:</p> <p>Simplify the ELISA analysis by GainData</p> |



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.