

[Go to Product page](#)

## Datasheet for ABIN6720264 Neuropilin 1 ELISA Kit

### Overview

Quantity:	1 kit
Target:	Neuropilin 1 (NRP1)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	780 pg/mL - 50000 pg/mL
Minimum Detection Limit:	780 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: A5 protein, BDCA4, BLOOD DENDRITIC CELL ANTIGEN 4, CD 304, CD304, DKFZp686A03134, DKFZp781F1414, Neuropilin-1, Neuropilin1, Neuropilin1 transmembrane receptor, NP1, NPN1, NRP 1, NRP, NRP1, NRP1_HUMAN, Vascular endothelial cell growth factor 165 receptor, VEGF165R</p> <p>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</p>

## Product Details

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.

Gene Name: NRP1

Production: Natural and recombinant rat Neuropilin-1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: F22-D854

## Target Details

Target:	Neuropilin 1 (NRP1)
Alternative Name:	Neuropilin-1 ( <a href="#">NRP1 Products</a> )
Gene ID:	246331
NCBI Accession:	<a href="#">NP_659566</a>
UniProt:	<a href="#">Q9QWJ9</a>
Pathways:	<a href="#">Regulation of Cell Size</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Smooth Muscle Cell Migration</a> , <a href="#">Platelet-derived growth Factor Receptor Signaling</a> , <a href="#">VEGFR1 Specific Signals</a>

## Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 0.78 ng/mL rat Neuropilin-1 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each rat Neuropilin-1 standard solution and each sample is measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 780pg/mL-50,000pg/mL</p>
Sample Volume:	100 µL

## Application Details

---

Plate: Pre-coated

---

Restrictions: For Research Use only

---

## Handling

---

Storage: RT, 4 °C, -20 °C

---

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.