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## Datasheet for ABIN6719876

### **NRP2 ELISA Kit**

#### Overview

Quantity:	1 kit
Target:	NRP2
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

#### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Lysate, Cell Culture Supernatant, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric

Characteristics:	<p>Synonyms: MGC126574, Neuropilin 2, 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</p> <p>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</p>
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## Product Details

cardiovascular development, axon guidance, and tumorigenesis. Mice with null mutations in genes encoding Sema3F, 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, Sema3F 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.

Gene Name: NRP2

Production: Natural and recombinant mouse Neuropilin-2. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: Q23-D863

## Target Details

Target:	NRP2
Alternative Name:	Neuropilin-2 ( <a href="#">NRP2 Products</a> )
Gene ID:	18187
NCBI Accession:	<a href="#">NP_001070871</a>
UniProt:	<a href="#">O35375</a>
Pathways:	<a href="#">Signaling Events mediated by VEGFR1 and VEGFR2, 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 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL mouse Neuropilin-2 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 mouse cell culture supernates, cell lysates or tissue homogenates to each empty well. It is recommended that each mouse Neuropilin-2 standard solution and each sample be measured in duplicate.</p> <p>ELISA Dilution: 156pg/mL-10,000pg/mL</p>
Sample Volume:	100 µL

## Application Details

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Plate: Pre-coated

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Restrictions: For Research Use only

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## Handling

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Storage: RT, 4 °C, -20 °C

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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.