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## Datasheet for ABIN2859218 NRP2 ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	NRP2
Binding Specificity:	AA 23-857
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat Neuropilin-2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Q23-D857
Specificity:	Expression system for standard: NSO Immunogen sequence: Q23-D857
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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### Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

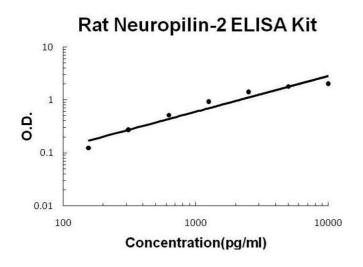
## Target Details

Target:	NRP2
Alternative Name:	NRP2 (NRP2 Products)
Background:	Protein Function: High affinity receptor for semaphorins 3C, 3F, VEGF-165 and VEGF-145
	isoforms of VEGF, and the PLGF-2 isoform of PGF.
	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
	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 numbe
	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 $\Lambda$
	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.
	Synonyms: Neuropilin-2,Vascular endothelial cell growth factor 165 receptor 2,Nrp2,
	Full Gene Name: Neuropilin-2
	Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	81527
UniProt:	035276
Pathways:	Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

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Application Details	
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the neuropilin family.
	Tissue Specificity: Found in certain neuronal populations of the CNS and in other non-neuronal
	tissues including mesenchymal tissue lining in the ribs.
Plate:	Pre-coated
Protocol:	rat Neuropilin-2 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from mouse specific for Neuropilin-2 has been precoated
	onto 96-well plates. Standards(NSO, Q23-D857) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for Neuropilin-2 is added
	subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase
	Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP
	substrate TMB are used to visualize HRP enzymatic reaction. TMB is 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-2 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
,	312pg/mL, 156pg/mL rat 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 rat cell culture supernates, cell lysates or tissue homogenates to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each rat Neuropilin-2 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(ng/ml): 1.6, Standard deviation: 0.058, CV(%): 3.6
	• Sample 2: n=16, Mean(ng/ml): 3.5, Standard deviation: 0.161, CV(%): 4.6
	<ul> <li>Sample 3: n=16, Mean(ng/ml): 6.1, Standard deviation: 0.317, CV(%): 5.2,</li> </ul>
	Sample 1: n=24, Mean(ng/ml): 1.9, Standard deviation: 0.089, CV(%): 4.7
	<ul> <li>Sample 2: n=24, Mean(ng/ml): 4.2, Standard deviation: 0.231, CV(%): 5.5</li> <li>Sample 3: n=24, Mean(ng/ml): 7.3, Standard deviation: 0.467, CV(%): 6.4</li> </ul>
	• Sample 5. 11–24, Mean(hg/11), 7.5, Standard deviation, 0.407, CV(%), 0.4
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

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#### ELISA

Image 1. Rat Neuropilin-2 PicoKine ELISA Kit standard curve

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