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# Datasheet for ABIN2859344 Neuropilin 1 ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	Neuropilin 1 (NRP1)
Binding Specificity:	AA 22-856
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	780-50.000 pg/mL
Minimum Detection Limit:	780 pg/mL
Application:	ELISA

#### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Neuropilin-1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: F22-P856
Specificity:	Expression system for standard: NSO Immunogen sequence: F22-P856
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product D	etails
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Sensitivity:	<20pg/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:	Neuropilin 1 (NRP1)	
Alternative Name:	NRP1 (NRP1 Products)	
Background:	Protein Function: 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 (By similarity)	
	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	
	gene was mapped to chromosome 10. NRP1 bounds 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.	
	Synonyms: Neuropilin-1,A5 protein,CD304,Nrp1,Nrp,	
	Full Gene Name: Neuropilin-1	
	Cellular Localisation: Membrane, Single-pass type I membrane protein.	
Gene ID:	18186	
UniProt:	P97333	
Pathways:	Regulation of Cell Size, Signaling Events mediated by VEGFR1 and VEGFR2, Smooth Muscle	

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### Application Details

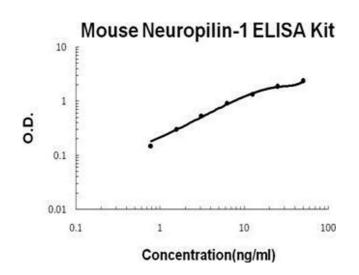
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the neuropilin family.
	Tissue Specificity: Nervous system.
Plate:	Pre-coated
Protocol:	mouse Neuropilin-1 ELISA Kit was based on standard sandwich enzyme-linked immune-
	sorbent assay technology. A monoclonal antibody from rat specific for Neuropilin-1 has been
	precoated onto 96-well plates. Standards(NSO, F22-P856) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for Neuropilin-1 is added
	subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase
	Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRF
	substrate TMB was used to visualize HRP enzymatic reaction. TMB was 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 mouse Neuropilin-1 amount of sample captured in plate
Assay Procedure:	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 mouse 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 mouse cell culture supernates, serum or plasma(heparin,
	EDTA) to each empty well. See "Sample Dilution Guideline" above for details. We recommend
	that each mouse Neuropilin-1 standard solution and each sample is measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(ng/ml): 7.7, Standard deviation: 0.393, CV(%): 5.1
	<ul> <li>Sample 2: n=16, Mean(ng/ml): 19, Standard deviation: 1.178, CV(%): 6.2</li> </ul>
	<ul> <li>Sample 3: n=16, Mean(ng/ml): 28, Standard deviation: 1.316, CV(%): 4.7,</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(ng/ml): 8.3, Standard deviation: 0.465, CV(%): 5.6</li> <li>Sample 2: n=24, Mean(ng/ml): 25, Standard deviation: 1.25, OV(%): 7.4</li> </ul>
	<ul> <li>Sample 2: n=24, Mean(ng/ml): 25, Standard deviation: 1.85, CV(%): 7.4</li> <li>Sample 3: n=24, Mean(ng/ml): 34, Standard deviation: 1.802, CV(%): 5.3</li> </ul>
	Sample 3. II-24, Weah(19/111). 34, Standard deviation. 1.802, 67(%). 3.3
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.

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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

Images



ELISA
Image 1. Mouse Neuropilin-1 PicoKine ELISA Kit standard
curve