

Datasheet for KOA0808

Rat Neuropilin-1 ELISA Kit**Overview**

Description:	Rat Neuropilin-1 AccuSignal ELISA Kit - KOA0808
Item No.:	KOA0808
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	780 pg/ml - 50,000 pg/ml

Product Details

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 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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	780 pg/ml - 50,000 pg/ml
Sensitivity:	<20 pg/ml

Target Details

Gene Name: NRP1

Reactivity:	Rat
Immunogen:	Expression system for standard: NSO; Immunogen sequence: F22-D854
Purity/Specificity:	Natural and recombinant rat Neuropilin-1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q9QWJ9 • NCBI - NP_659566.1 • GeneID - 246331 • KOA0808 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 50ng/ml, 25ng/ml, 12.5ng/ml, 6.25ng/ml, 3.12ng/ml, 1.56ng/ml, 0.78ng/ml rat Neuropilin-1 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant:	Heparin Sodium
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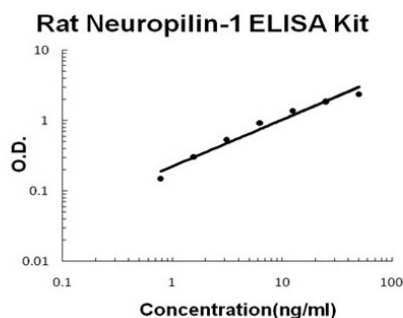
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.
Expiration:	See kit insert for complete instructions.

Images

ELISA

Rat Neuropilin-1 ELISA Kit standard curve.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.