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PRODUCT DATASHEET

Anti-Neuropilin-1 (a1 CUB Domain) Antibody

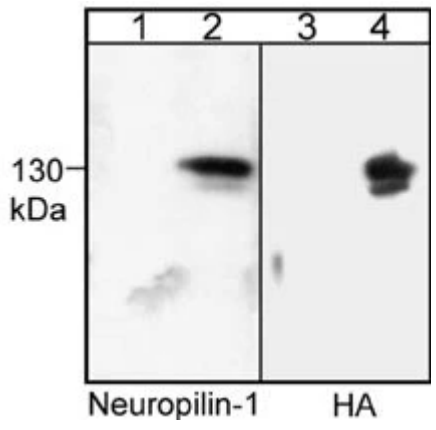
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Product Details

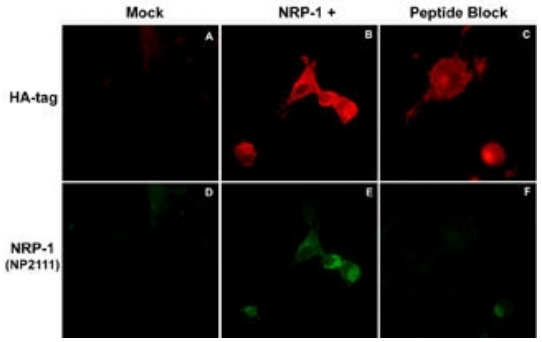
Available Variants	100 µL (SKU:NP2111)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	NRP1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:100 ICC: 1:200
Species Reactivity	Human, Mouse, Rat
Immunogen	Neuropilin-1 synthetic peptide (coupled to carrier protein) corresponding to amino acids within the a1 CUB domain of human neuropilin-1. This sequence is highly conserved in rat and mouse neuropilin-1, and has low homology to neuropilin-2.
Specificity	This antibody detects a 130 kDa* protein corresponding to the apparent molecular mass of neuropilin-1 on SDS-PAGE immunoblots of COS-7 cells transfected with mouse neuropilin-1. In immunocytochemistry, this antibody co-localizes with anti-HA in Cos-7 cells transfected with HA-tagged mouse neuropilin-1.
Molecular Weight	130
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	O14786 UniProt Summary: Cell-surface 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. Mediates the chemorepulsant activity of semaphorins. Recognizes a C-end rule (CendR) motif R/KXXR/K on its ligands which causes cellular internalization and vascular leakage. It binds to semaphorin 3A, the PLGF-2 isoform of PGF, the VEGF165 isoform of VEGFA and VEGFB. Coexpression with KDR results in increased VEGF165 binding to KDR as well as increased chemotaxis. Regulates VEGF-induced angiogenesis. Binding to VEGFA initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development. Regulates mitochondrial iron transport via interaction with ABCB8/MITOSUR.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	8829

Product Images



Western blot image of COS-7 cells untransfected (lanes 1 & 3) or transfected with HA-tagged mouse neuropilin-1 (lanes 2 & 4). Blots were probed with anti-Neuropilin-1 (NP2111) (lanes 1 & 2) or with anti-HA (lanes 3 & 4).



Immunocytochemical double labeling using anti-HA mouse monoclonal and anti-NRP-1 rabbit polyclonal (NP2111) antibodies in COS-7 cells mock transfected (A,D) or transfected with NRP-1 constructs (B,E). The specificity of the binding in E was demonstrated by using NRP-1 peptide (NX2115) in the presence of the anti-NRP-1 antibody (C,F).

Product Page URL: www.antibodiesinc.com/products/anti-neuropilin-1-a1-cub-domain-antibody-np2111

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