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Datasheet for ABIN3031982
anti-NRP2 antibody (AA 45-60)

2 Images

Overview

Quantity:	100 µg
Target:	NRP2
Binding Specificity:	AA 45-60
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NRP2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Amino acids 45-60 (YPQDYPSHQNCEWIVY-human) were used as the immunogen for this NRP2 antibody (100% mouse homology).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	NRP2
Alternative Name:	NRP2 (NRP2 Products)
Background:	Neuropilin-2, also called Npn2 or VEGF165R2, is a member of the neuropilin family of receptor proteins. Sema3b can act to repulse axons expressing neuropilin-2 and can antagonize the repulsive action of Sema3a on axonal growth cones expressing neuropilin-1. NRP2 may play a

Target Details

role in cardiovascular development, axon guidance, and tumorigenesis. Mice with null mutations in genes encoding Sema3F, and its holoreceptor components NRP2 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 Neuropilin-2 to apical dendrites and of NRP1 to all dendrites of cortical pyramidal neurons.

UniProt: [O60462](#)

Pathways: [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the NRP2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL

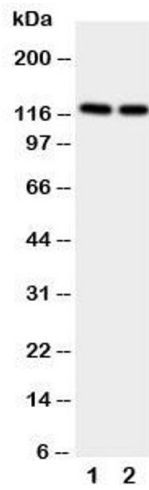
Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

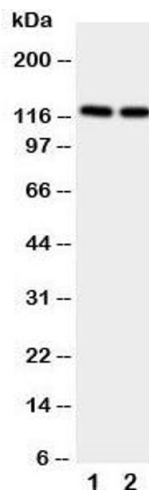
Storage: -20 °C

Storage Comment: After reconstitution, the NRP2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot testing of NRP2 antibody and Lane 1: rat brain



Western Blotting

Image 2. Western blot testing of NRP2 antibody and Lane 1: rat brain; 2: rat testis. Predicted size: 116-130KD