

Anti-NRP2 Antibody

Catalog Number: PA1771

About NRP2

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 on 2q33.3. The NRP2 gene contains 17 exons and spans about 112 kb. *Sema3b* can act to repulse axons expressing neuropilin-2 and can antagonize the repulsive action of *Sema3a* on axonal growth cones expressing neuropilin-1. 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 number and size, and also aberrant spine distribution. Moreover, *Sema3F* promotes loss of spines and excitatory synapses in dissociated neurons in vitro, and in *Npn2*-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 *Npn2* to apical dendrites and of *Npn1* to all dendrites of cortical pyramidal neurons.

Overview

Product Name	Anti-NRP2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Rabbit IgG polyclonal antibody for Neuropilin-2 (NRP2) detection. Tested with WB in Human; Mouse; Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O60462

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human NRP2(45-60aa YPQDYPSHQNCEWIVY), identical to the related mouse sequence and different from the related rat sequence by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5 μ g/ml, Rat, Human, Mouse
	For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-NRP2 Antibody (PA1771) Images



Anti-NRP2 antibody, PA1771, Western blotting

All lanes: Anti NRP2 (PA1771) at 0.5ug/ml

Lane 1: Rat Brain Tissue Lysate at 50ug

Lane 2: Rat Testis Tissue Lysate at 50ug

Predicted bind size: 105KD

Observed bind size: 105KD

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