

Anti-Neuropilin-2 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. Semaphorin 3B can act to repulse axons expressing neuropilin-2 and can antagonize the repulsive action of Semaphorin 3A 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 Semaphorin 3F, and its coreceptor components Npn2 and plexin A3 (PLXNA3), exhibit increased dentate gyrus granule cell and cortical layer V pyramidal neuron spine number and size, and also aberrant spine distribution. Moreover, Semaphorin 3F 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-Neuropilin-2 NRP2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Neuropilin-2 NRP2 Antibody catalog # PA1771. Tested in WB applications. This antibody reacts with 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	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O60462

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human NRP2, 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	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Rat, Human, Mouse</p>

Anti-Neuropilin-2 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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