

## Anti-Neuropilin-2 NRP2 Antibody Picoband®

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-Neuropilin-2 NRP2 Antibody Picoband®
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. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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.
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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	Western blot, 0.1-0.5ug/ml, Rat, Human, Mouse

## Anti-Neuropilin-2 NRP2 Antibody Picoband® (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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