

Anti-NMDAR2A/GRIN2A Antibody Picoband®

Catalog Number: PB9335

About GRIN2A

GRIN2A is also known as N-methyl-D-aspartate receptor channel, subunit epsilon-1 (NMDAR2A). This gene encodes a member of the glutamate-gated ion channel protein family. The encoded protein is an N-methyl-D-aspartate (NMDA) receptor subunit. NMDA receptors are both ligand-gated and voltage-dependent, and are involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. These receptors are permeable to calcium ions, and activation results in a calcium influx into post-synaptic cells, which results in the activation of several signaling cascades. Disruption of this gene is associated with focal epilepsy and speech disorder with or without mental retardation. Alternative splicing results in multiple transcript variants.

Overview

Product Name	Anti-NMDAR2A/GRIN2A Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NMDAR2A/GRIN2A Antibody Picoband® catalog # PB9335. 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, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg Na ₃ N. *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	Q12879

Technical Details

Immunogen	E.coli-derived human NMDAR2A recombinant protein (Position: D958-R1300). Human NMDAR2A shares 89% and 90% amino acid (aa) sequence identity with mouse and rat NMDAR2A, respectively.
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, Mouse, Rat, Human

Anti-NMDAR2A/GRIN2A Antibody Picoband® (PB9335) Images



Anti-NMDAR2A Picoband antibody, PB9335, Western blotting
All lanes: Anti NMDAR2A (PB9335) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Mouse Brain Tissue Lysate at 50ug
Predicted bind size: 165KD
Observed bind size: 165KD

1 Publications Citing This Product

1. PubMed ID: 33099751, Liang Y, Ma Y, Wang J, Nie L, Hou X, Wu W, Zhang X, Tian Y. Leptin Contributes to Neuropathic Pain via Extrasynaptic NMDAR-nNOS Activation. Mol Neurobiol. 2020 Oct 25. doi:10.1007/s12035-020-02180-1. Epub ahead of print. PMID:33099751.

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Anti-NMDAR2A/GRIN2A Antibody

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