

## Anti-NMDAR2A/GRIN2A Antibody

Catalog Number: PA1058-1

### 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

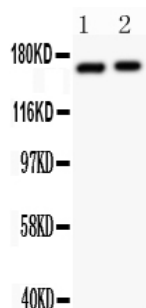
Product Name	Anti-NMDAR2A/GRIN2A Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NMDAR2A/GRIN2A Antibody catalog # PA1058-1. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal G9
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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

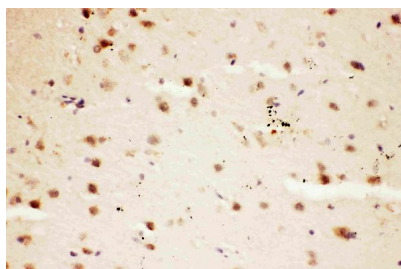
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human NMDAR2A, different from the related mouse sequence by three amino acids, and from the related rat sequence by four amino acids.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins
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>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Human, Mouse, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Mouse, Rat, Human</p>

## Anti-NMDAR2A/GRIN2A Antibody (PA1058-1) Images



Anti-NMDAR2A antibody, PA1058-1, Western blotting  
All lanes: Anti NMDAR2A (PA1058-1) 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



Anti-NMDAR2A antibody, PA1058-1, IHC(P)  
IHC(P): Rat Brain Tissue

## 2 Publications Citing This Product

1. PubMed ID: 10.1016/j.neuro.2016.01.005, Impaired hippocampal synaptic plasticity and NR2A/2B expression ratio in remifentanyl withdrawal rats

2. 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.

Visit [bosterbio.com/anti-nmdar2a-antibody-pa1058-1-boster.html](https://www.bosterbio.com/anti-nmdar2a-antibody-pa1058-1-boster.html) to see all 2 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-NMDAR2A/GRIN2A Antibody