

## Anti-NMDAR1/GRIN1 Antibody

Catalog Number: PA1222

### About GRIN1

Glutamate [NMDA] receptor subunit zeta-1 is a protein that in humans is encoded by the GRIN1 gene. The protein encoded by this gene is a critical subunit of N-methyl-D-aspartate receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. These subunits play a key role in the plasticity of synapses, which is believed to underlie memory and learning. Cell-specific factors are thought to control expression of different isoforms, possibly contributing to the functional diversity of the subunits. Alternatively spliced transcript variants have been described.

### Overview

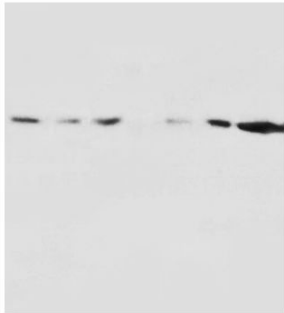
Product Name	Anti-NMDAR1/GRIN1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NMDAR1/GRIN1 Antibody catalog # PA1222. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
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	Q05586

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human NMDAR1 (36-53aa RKHEQMFREAVNQANKRH), identical to the related rat and mouse sequences.
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
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

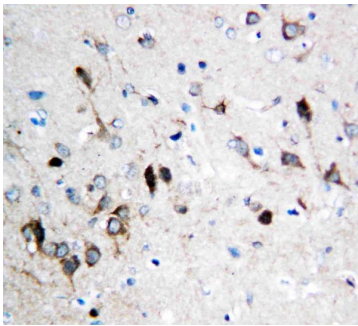
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used Immunohistochemistry (Paraffin-embedded Section), 0.5-1<math>\mu</math>g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5<math>\mu</math>g/ml, Human, Rat, Mouse</p> <p>For protocols, please visit <a href="https://www.bosterbio.com/protocol-and-troubleshooting/">https://www.bosterbio.com/protocol-and-troubleshooting/</a></p>

## Anti-NMDAR1/GRIN1 Antibody (PA1222) Images



Anti-NMDAR1 antibody, PA1222, Western blotting

Lane 1: Rat Brain Tissue Lysate  
Lane 2: Rat Brain Tissue Lysate  
Lane 3: Rat Liver Tissue Lysate  
Lane 4: Rat Heart Tissue Lysate  
Lane 5: MM453 Cell Lysate  
Lane 6: MM231 Cell Lysate  
Lane 7: HELA Cell Lysate



Anti-NMDAR1 antibody, PA1222, IHC(P)

IHC(P): Rat Brain Tissue

## 7 Publications Citing This Product

1. PubMed ID: 10.4103/1673-5374.184494, Mechanisms responsible for the effect of median nerve electrical stimulation on traumatic brain injury-induced coma: orexin-A-mediated N-methyl-D-aspartate receptor subunit NR1 upregulation
2. PubMed ID: 10.3892/mmr.2017.7539, Effect of hippocampal L<sup>2</sup>NBP on BDNF and TrkB expression and neurological function of vascular dementia rats
3. PubMed ID: 10.1186/s12871-018-0491-y, The interplay of BDNF-TrkB with NMDA receptor in propofol-induced cognition dysfunction

Visit [bosterbio.com/anti-nmdar1-antibody-pa1222-boster.html](http://bosterbio.com/anti-nmdar1-antibody-pa1222-boster.html) to see all 7 publications.

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