

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

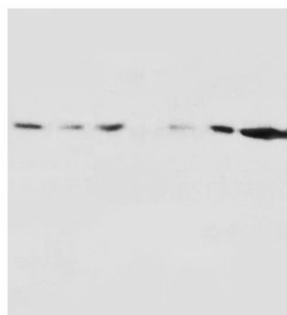
Product Name	Anti-NMDAR1/GRIN1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NMDAR1/GRIN1 Antibody catalog # PA1222. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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, 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 ug/ml.

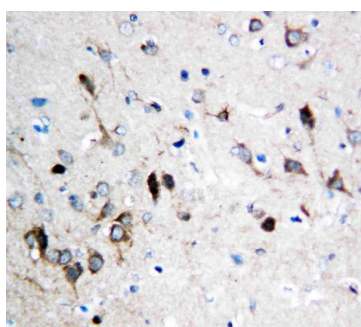
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio 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, Human, Rat, Mouse, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</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 L¹NBP 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

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