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Anti-NMDAR1 (Ab-897) GRIN1 Antibody

Catalog Number: A01808-1

About GRIN1

NMDA receptors are members of the ionotropic class of glutamate receptors, which also includes Kainate and AMPA receptors. NMDA receptors consist of NR1 subunits combined with one or more NR2 (A-D) or NR3 (A-B) subunits. The ligand-gated channel is permeable to cations including Ca2+, and at resting membrane potentials NMDA receptors are inactive due to a voltage-dependent blockade of the channel pore by Mg2+. NMDA receptor activation, which requires binding of glutamate and glycine, leads to an influx of Ca2+ into the postsynaptic region where it activates several signaling cascades, including pathways leading to the induction of long-term potentiation (LTP) and depression (LTD). NMDA receptors have a critical role in excitatory synaptic transmission and plasticity in the CNS. They govern a range of physiological conditions including neurological disorders caused by excitotoxic neuronal injury, psychiatric disorders and neuropathic pain syndromes.

Tyszkiewicz JP, et al. J Physiol. 2004 Feb 1; 554(Pt 3): 765-777

Overview

Product Name	Anti-NMDAR1 (Ab-897) GRIN1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NMDAR1 (Ab-897) GRIN1 Antibody (Catalog # A01808-1). Tested in IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF
Clonality	Polyclonal
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q05586

Technical Details

Immunogen	Peptide sequence around aa.895~899 (R-S-S-K-D) derived from Human NMDAR1.
Predicted Reactive Species	Bovine, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml

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Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Predicted MW: 120kd Immunofluorescence: 1:100~1:200

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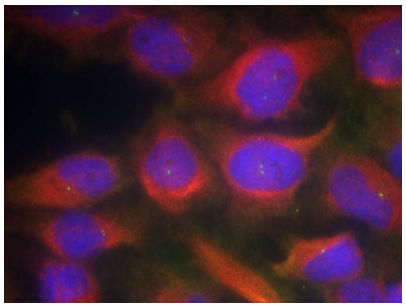
Anti-NMDAR1 (Ab-897) GRIN1 Antibody (A01808-1) Images



Immunofluorescence staining of methanol-fixed Hela cells using NMDAR1(Ab-897) Antibody #A01808-1.

1 Publications Citing This Product

1. PubMed ID: 27482224, 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

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