

Rabbit NMDA NR2B Subunit, N-terminus Polyclonal Antibody | anti-GRIN2B antibody

Anti-NMDA Receptor, NR2B Subunit N-terminus

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72798	Rabbit	Mouse, Rat Expected Reactivity: Bovine, Canine, Chicken, Human, Non-Human Primate	Immunohistochemistry, Western Blot

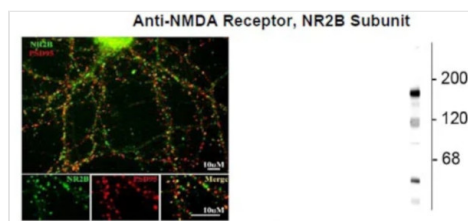
PRODUCT SYNONYMS

NMDA NR2B Subunit; N-terminus; Polyclonal Antibody; Anti-NMDA Receptor; NR2B Subunit N-terminus; anti-GRIN2B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat Expected Reactivity: Bovine, Canine, Chicken, Human, Non-Human Primate
Clonality	Polyclonal
Specificity	Specific for the ~180k NR2B subunit of the NMDA receptor in Western Blots of most brain regions. Immunolabeling blocked by pre-adsorption of antibody with the N-terminal peptide that was used to generate the antibody.
Purity/Purification	Affinity Purified (Prepared from rabbit serum by affinity purification using a column to which the peptide immunogen was coupled.)
Form/Format	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per ml BSA and 50% glycerol.
Sequence Length	1482
Applicable Applications for anti-GRIN2B antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Synthetic peptide corresponding to amino acid residues from the N-terminal region of the NR2B subunit of the rat NMDA receptor, conjugated to keyhole limpet hemocyanin (KLH).
Preparation and Storage	Store at -20 degree C; stable for at least 1 year

IMAGES



Application Data

Left Image: Immunostaining of 14 DIV rat cortical neurons showing NR2B (green, 1:400) and PSD95 (red). Photo courtesy of Gang Liu. Right Image: Western blot of 10 µg of rat hippocampal lysate showing specific immunolabeling of the ~180 kDa NR2B subunit of the NMDA receptor.

ADDITIONAL INFORMATION

Related Product Information for anti-GRIN2B antibody	Affinity purified rabbit polyclonal antibody
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References	• Alvestad RM, Grosshans DR, Coultrap SJ, Nakazawa T, Yamamoto T, Browning MD (2003) Tyrosine dephosphorylation and ethanol inhibition of N-methyl-D-aspartate receptor function. J Biol Chem 278:11020-11025. • Carroll RC, Zukin RS (2002) NMDA-receptor trafficking and targeting: implications for synaptic transmission and plasticity. Trends Neurosci 25:571-577. • Clayton DA, Grosshans DR, Browning MD (2002a) Aging and surface expression of hippocampal NMDA receptors. J Biol Chem 277:14367-14369. • Clayton DA, Mesches MH, Alvarez E, Bickford PC, Browning MD (2002b) A hippocampal NR2B deficit can mimic age-related changes in long-term potentiation and spatial learning in the Fischer 344 rat. J Neurosci 22:3628-3637. • Grosshans DR, Clayton DA, Coultrap SJ, Browning MD (2002) LTP leads to rapid surface expression of NMDA but not AMPA receptors in adult rat CA1. Nat Neurosci 5:27-33.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6980984
NCBI GeneID	24410
NCBI Accession #	NP_036706.1
NCBI GenBank Nucleotide #	NM_012574.1
UniProt Accession #	Q00960; Q62684
Molecular Weight	180 kDa
NCBI Official Full Name	glutamate receptor ionotropic, NMDA 2B
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
NCBI Official Symbol	Grin2b
NCBI Official Synonym Symbols	GluN2B
NCBI Protein Information	glutamate receptor ionotropic, NMDA 2B; NR2B; NMDAR2B; glutamate receptor, ionotropic, NMDA2B; N-methyl D-aspartate receptor subtype 2B; glutamate [NMDA] receptor subunit epsilon-2
UniProt Protein Name	Glutamate receptor ionotropic, NMDA 2B
UniProt Gene Name	Grin2b
UniProt Synonym Gene Names	GluN2B; NMDAR2B; NR2B
UniProt Entry Name	NMDE2_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.