

**Anti-NMDA NR2B Subunit Antibody**

**Our Anti-NMDA NR2B Subunit rabbit polyclonal primary antibody from PhosphoSolutions is produced in-house**  
**Catalog # AN1485**

**Specification****Anti-NMDA NR2B Subunit Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q00960</a>
Reactivity	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	166071

**Anti-NMDA NR2B Subunit Antibody - Additional Information**

Gene ID **24410**

**Other Names**

AW490526 antibody, EIEE27 antibody, Glutamate [NMDA] receptor subunit epsilon 2 antibody, Glutamate [NMDA] receptor subunit epsilon-2 antibody, Glutamate Receptor Ionotropic N Methyl D Aspartate 2B antibody, Glutamate Receptor Ionotropic N Methyl D Aspartate subunit 2B antibody, Glutamate receptor ionotropic NMDA2B antibody, Glutamate receptor subunit epsilon 2 antibody, Glutamate receptor ionotropic NMDA2B (epsilon 2) antibody, GRIN 2B antibody, GRIN2B antibody, hNR 3 antibody, hNR3 antibody, MGC142178 antibody, MGC142180 antibody, MRD6 antibody, N methyl D aspartate receptor channel subunit epsilon 2 antibody, N methyl D aspartate receptor subtype 2B antibody, N methyl D aspartate receptor subunit 2B antibody, N methyl D aspartate receptor subunit 3 antibody, N-methyl D-aspartate receptor subtype 2B antibody, N-methyl-D-aspartate receptor subunit 3 antibody, NMDA NR2B antibody, NMDA R2B antibody, NMDAR2B antibody, NMDE2 antibody, NMDE2\_HUMAN antibody, NME2 antibody, NR2B antibody, NR3 antibody

**Target/Specificity**

The ion channels activated by glutamate that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR). The NMDAR plays an essential role in memory, neuronal development and it has also been implicated in several disorders of the central nervous system including Alzheimer's, epilepsy and ischemic neuronal cell death (Grosshans et al., 2002; Wenthold et al., 2003; Carroll and Zukin, 2002). The NMDA receptor is also one of the principal molecular targets for alcohol in the CNS (Lovinger et al., 1989; Alvestad et al., 2003; Snell et al., 1996). The rat NMDAR1 (NR1) was the first subunit of the NMDAR to be cloned and it can form NMDA activated channels when expressed in *Xenopus* oocytes but the currents in such channels are much smaller than those seen in situ. Channels with more physiological characteristics are produced when the NR1 subunit is combined with one or more of the NMDAR2 (NR2 A-D) subunits. Overexpression of the NR2B-subunit of the NMDA receptor has been associated with increases in learning and memory while aged, memory impaired animals have deficiencies in NR2B expression (Clayton et al., 2002a; Clayton et al., 2002b). The NMDAR is also potentiated by protein phosphorylation (Lu et al., 1999).

**Dilution**

WB ~ ~ 1:1000

IHC~~1:100~500

**Format**

Antigen Affinity Purified from Pooled Serum

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-NMDA NR2B Subunit Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

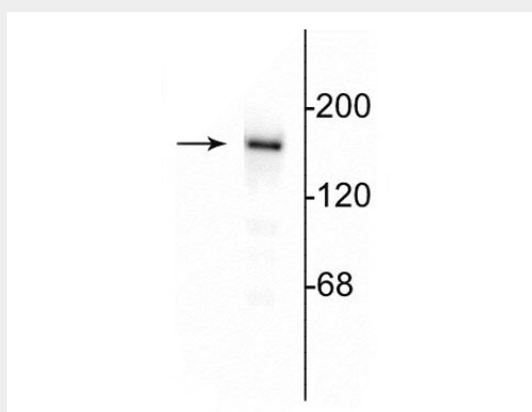
**Shipping**

Blue Ice

**Anti-NMDA NR2B Subunit Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-NMDA NR2B Subunit Antibody - Images**

Western blot of 10 ug of rat hippocampal lysate showing specific immunolabeling of the ~180 kDa NR2B subunit of the NMDA receptor.

**Anti-NMDA NR2B Subunit Antibody - Background**

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