

**Anti-NMDA NR2A Subunit Antibody**  
Our Anti-NMDA NR2A Subunit rabbit polyclonal primary antibody from PhosphoSolutions is produced in-h  
Catalog # AN1480

## Specification

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### Anti-NMDA NR2A Subunit Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">Q00959</a>
Reactivity	Bovine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	165469

### Anti-NMDA NR2A Subunit Antibody - Additional Information

Gene ID **24409**

#### Other Names

EPND antibody, FESD antibody, GluN2A antibody, Glutamate [NMDA] receptor subunit epsilon-1 antibody, Glutamate receptor antibody, Glutamate receptor ionotropic N methyl D aspartate 2A antibody, GRIN 2A antibody, GRIN2A antibody, hNR2A antibody, LKS antibody, N methyl D aspartate receptor channel subunit epsilon 1 antibody, N Methyl D Aspartate Receptor Subtype 2A antibody, N methyl D aspartate receptor subunit 2A antibody, N-methyl D-aspartate receptor subtype 2A antibody, NMDA receptor subtype 2A antibody, NMDAR 2A antibody, NMDAR2A antibody, NMDE1\_HUMAN antibody, NR2A antibody, OTTHUMP00000160135 antibody, OTTHUMP00000174531 antibody

#### Target/Specificity

The ion channels activated by glutamate are typically divided into two classes. Glutamate receptors that are activated by kainate and  $\alpha$ -amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as kainate/AMPA receptors (K/AMPA). Those 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 NMDAR is also potentiated by protein phosphorylation (Lu et al., 1999). The rat NMDAR1 (NR1) was the first subunit of the NMDAR to be cloned. The NR1 protein 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.

#### 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 NR2A Subunit Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Shipping

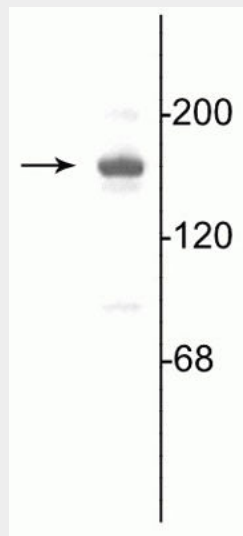
Blue Ice

### Anti-NMDA NR2A Subunit Antibody - Protocols

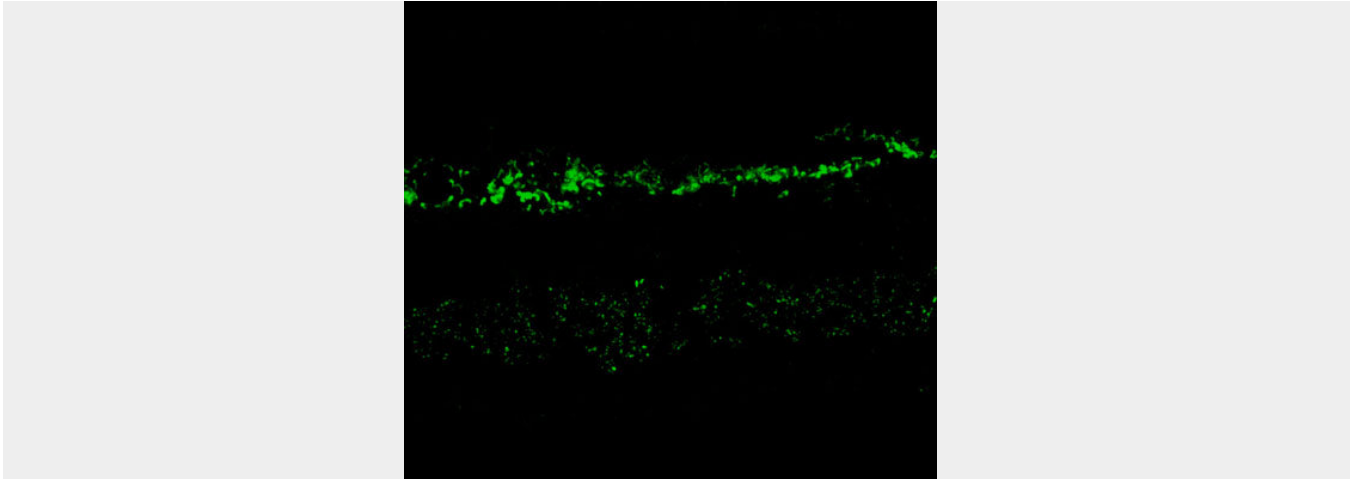
Provided below are standard protocols that you may find useful for product applications.

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

### Anti-NMDA NR2A Subunit Antibody - Images



Western blot of 10  $\mu$ g of rat hippocampal lysate showing specific immunolabeling of the ~180 kDa NR2A subunit of the NMDA receptor.



Immunostaining of rabbit retina showing NR2A (1:1000, green) in the rod and cone photoreceptors in the outer plexiform layer as well as the entire inner plexiform layer.

### **Anti-NMDA NR2A Subunit Antibody - Background**

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