## Product Name: NMDAζ1 Rabbit Polyclonal Antibody

Catalog #: APRab14762



#### **Summary**

 Production Name
 NMDAζ1 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** IF,IHC,WB,ELISA **Reactivity** Human,Mouse,Rat

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

#### **Immunogen**

Gene Name GRIN1

GRIN1; NMDAR1; Glutamate [NMDA] receptor subunit zeta-1; N-methyl-D-aspartate

receptor subunit NR1; NMD-R1

**Gene ID** 2902.0

Q05586.The antiserum was produced against synthesized peptide derived from human **SwissProt ID** 

NMDAR1. AA range:856-905

### **Application**

WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in

Dilution Ratio

other applications.

Molecular Weight 105kD

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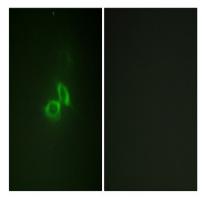
#### **Background**

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 ligandgated 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. [provided by RefSeq, Jul 2008], function: NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltagedependent sensitivity to magnesium. Mediated by glycine. This protein plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. It mediates neuronal functions in glutamate neurotransmission. Is involved in the cell surface targeting of NMDA receptors., online information: NMDA receptor entry,PTM:NMDA is probably regulated by C-terminal phosphorylation of an isoform of NR1 by PKC. Dephosphorylated on Ser-897 probably by protein phosphatase 2A (PPP2CB). Its phosphorylated state is influenced by the formation of the NMDAR-PPP2CB complex and the NMDAR channel activity, similarity: Belongs to the glutamate-gated ion channel (TC 1.A.10) family, subcellular location: Enriched in post-synaptic plasma membrane and post-synaptic densities, subunit: Forms heteromeric channel of a zeta subunit (GRIN1), a epsilon subunit (GRIN2A, GRIN2B, GRIN2C or GRIN2D) and a third subunit (GRIN3A or GRIN3B); disulfide-linked. Found in a complex with GRIN2A or GRIN2B, GRIN3A or GRIN3B and PPP2CB. Interacts with DLG4 and MPDZ.,

#### **Research Area**

Calcium; Neuroactive ligand-receptor interaction; Long-term potentiation; Alzheimer's disease; Amyotrophic lateral sclerosis (ALS); Huntington's disease;

#### **Image Data**



Immunofluorescence analysis of NIH/3T3 cells, using NMDAR1 Antibody. The picture on the right is blocked with the synthesized peptide.

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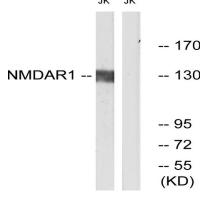
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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using NMDAR1 Antibody. The picture on the right is blocked with the synthesized peptide.  $_{J\kappa}^{}$   $_{J\kappa}^{}$ 



Western blot analysis of lysates from Jurkat cells, using NMDAR1 Antibody. The lane on the right is blocked with the synthesized peptide.

#### Note

For research use only.