

## NMDAR1 (Phospho Ser897) Rabbit pAb

CatalogNo: YP0850

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 120kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:10000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human NMDAR1 around the phosphorylation site of Ser897. AA range: 864-913

## Specificity

Phospho-NMDAR1 (S897) Polyclonal Antibody detects endogenous levels of NMDAR1 protein only when phosphorylated at S897. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RSsKD

## Target Information

**Gene name** GRIN1

**Protein Name** Glutamate [NMDA] receptor subunit zeta-1

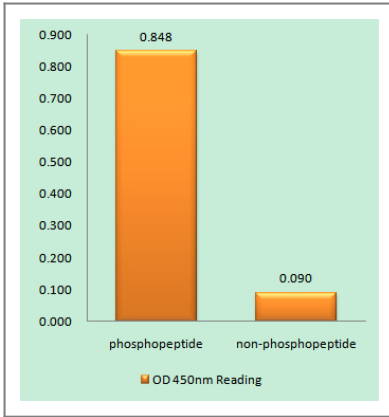
Organism	Gene ID	UniProt ID
Human	<a href="#">2902</a> ;	<a href="#">Q05586</a> ;
Mouse	<a href="#">14810</a> ;	<a href="#">P35438</a> ;
Rat	<a href="#">24408</a> ;	<a href="#">P35439</a> ;

**Cellular Localization** Cell membrane ; Multi-pass membrane protein . Cell junction, synapse, postsynaptic cell membrane . Cell junction, synapse, postsynaptic density . Enriched in postsynaptic plasma membrane and postsynaptic densities. .

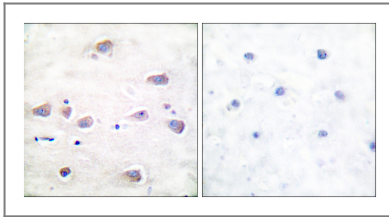
**Tissue specificity** Brain,Cerebellum,Hippocampus,

**Function** Function:NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent 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.,

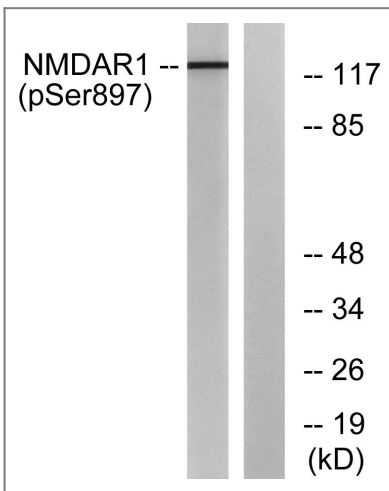
## Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using NMDAR1 (Phospho-Ser897) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using NMDAR1 (Phospho-Ser897) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from LOVO cells, using NMDAR1 (Phospho-Ser897) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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