NMDAR1 (Phospho Ser890) Rabbit pAb

CatalogNo: YP1135

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- IHC,IF,ELISA

MW
- 105kD (Calculated)

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

IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:40000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human NMDAR1 around the phosphorylation site of Ser890. AA range:856-905

Specificity Phospho-NMDAR1 (S890) Polyclonal Antibody detects endogenous levels of NMDAR1 protein only when phosphorylated at S890.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):ASsFK

Target Information

Gene name GRIN1

Protein Name Glutamate [NMDA] receptor subunit zeta-1

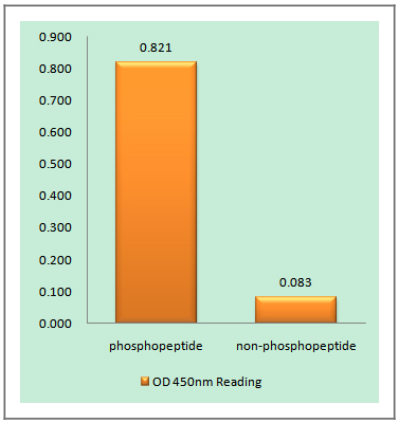
Organism	Gene ID	UniProt ID
Human	2902;	Q05586;
Mouse	14810;	P35438;
Rat	24408;	P35439;

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. .

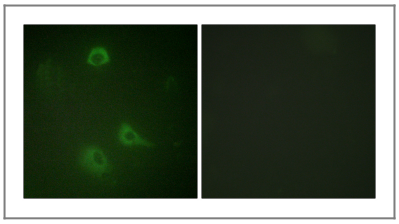
Tissue specificity Brain ,Cerebellum ,Hippocampus ,

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. ,

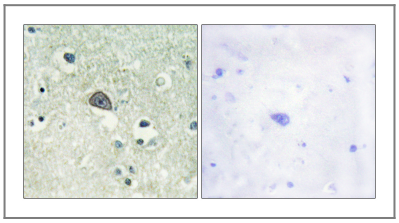
Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using NMDAR1 (Phospho-Ser890) Antibody



Immunofluorescence analysis of A549 cells, using NMDAR1 (Phospho-Ser890) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using NMDAR1 (Phospho-Ser890) Antibody. The picture on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information: **NMDAR1 (Phospho Ser890) Rabbit pAb**