

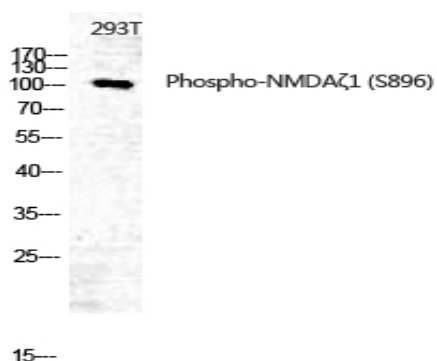
## NMDA $\zeta$ 1 (phospho Ser896) Polyclonal Antibody

|                              |  |
|------------------------------|--|
| <b>Catalog No :</b>          | YP0696   |
| <b>Reactivity :</b>          | Human;Mouse;Rat  |
| <b>Applications :</b>        | WB;IHC;IF;ELISA  |
| <b>Target :</b>              | NMDAR1   |
| <b>Fields :</b>              | >>Ras signaling pathway;>>Rap1 signaling pathway;>>Calcium signaling pathway;>>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>Circadian entrainment;>>Long-term potentiation;>>Glutamatergic synapse;>>Alzheimer disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Spinocerebellar ataxia;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Cocaine addiction;>>Amphetamine addiction;>>Nicotine addiction;>>Alcoholism |
| <b>Gene Name :</b>           | GRIN1  |
| <b>Protein Name :</b>        | Glutamate [NMDA] receptor subunit zeta-1   |
| <b>Human Gene Id :</b>       | 2902   |
| <b>Human Swiss Prot No :</b> | Q05586   |
| <b>Mouse Gene Id :</b>       | 14810  |
| <b>Mouse Swiss Prot No :</b> | P35438   |
| <b>Rat Gene Id :</b>         | 24408  |
| <b>Rat Swiss Prot No :</b>   | P35439   |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human NMDAR1 around the phosphorylation site of Ser896. AA range:862-911   |
| <b>Specificity :</b>         | Phospho-NMDA $\zeta$ 1 (S896) Polyclonal Antibody detects endogenous levels of NMDA $\zeta$ 1 protein only when phosphorylated at S896.  |
|                              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |

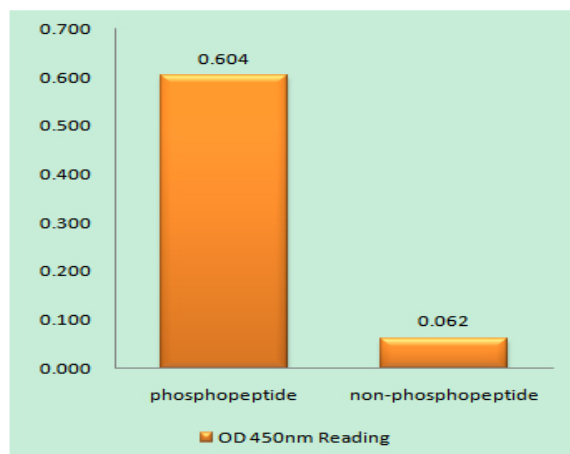
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|-------------------------------|--|
| <b>Formulation :</b>          | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>             | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200   |
| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml  |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)   |
| <b>Observed Band :</b>        | 105kD  |
| <b>Cell Pathway :</b>         | Calcium;Neuroactive ligand-receptor interaction;Long-term potentiation;Alzheimer's disease;Amyotrophic lateral sclerosis (ALS);Huntington's disease;   |
| <b>Background :</b>           | 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 ligand-gated 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],  |
| <b>Function :</b>             | 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:Fo |
| <b>Subcellular Location :</b> | 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. .   |
| <b>Expression :</b>           | Brain,Cerebellum,Hippocampus,  |
| <b>Tag :</b>                  | orthogonal,hot   |

|                        |         |
|------------------------|---------|
| <b>Sort :</b>          | 10902   |
| <b>No2 :</b>           | 3384S   |
| <b>No4 :</b>           | 1       |
| <b>Host :</b>          | Rabbit  |
| <b>Modifications :</b> | Phospho |

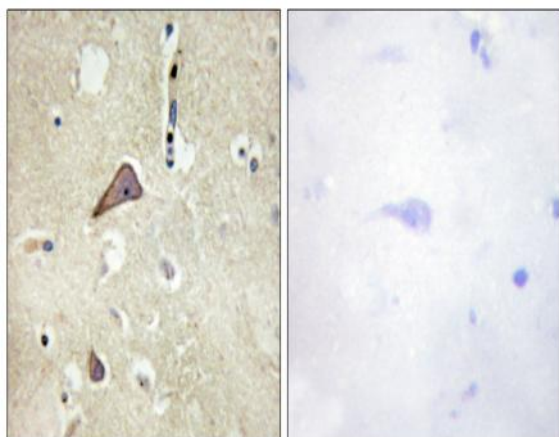
## Products Images



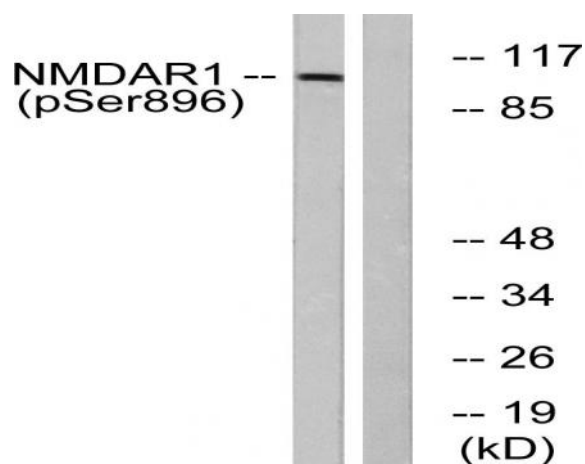
Western Blot analysis of 293T using Phospho-NMDAζ1 (S896) Polyclonal Antibody. Antibody was diluted at 1:500



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using NMDAR1 (Phospho-Ser896) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using NMDAR1 (Phospho-Ser896) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells treated with PMA 125ng/ml 30', using NMDAR1 (Phospho-Ser896) Antibody. The lane on the right is blocked with the phospho peptide.