



NMDA ζ 1 (phospho Ser896) Polyclonal Antibody

Catalog No	YP-Ab-16340
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	GRIN1
Immunogen	The antiserum was produced against synthesized peptide derived from human NMDAR1 around the phosphorylation site of Ser896. AA range:862-911
Specificity	Phospho-NMDA ζ 1 (S896) Polyclonal Antibody detects endogenous levels of NMDA ζ 1 protein only when phosphorylated at S896.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DKFZP586I1419;FLJ274;FLJ45718;OTTHUMP215994;OTTHUMP215995;OTTHUMP215996;OTTHUMP2161;TAZ;Transcriptional co activator with PDZ binding motif;Transcriptional coactivator with PDZ binding motif;Transcriptional coactivator with PDZ-binding motif;WW domain containing transcription regulator 1;WW domain containing transcription regulator protein 1;WW domain-containing transcription regulator protein 1;WWTR 1;WWTR1;WWTR1_HUMAN;NMDAR1;GRIN1;Glutamate [NMDA] receptor subunit zeta-1;N-methyl-D-aspartate receptor subunit NR1;NMD-R1
Observed Band	105kD
Calculated Molecular Weight	105kD
Cell Pathway	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:Fo

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 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],

matters needing attention

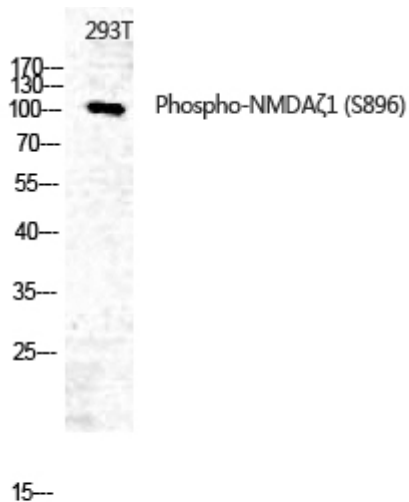
Avoid repeated freezing and thawing!

Usage suggestions

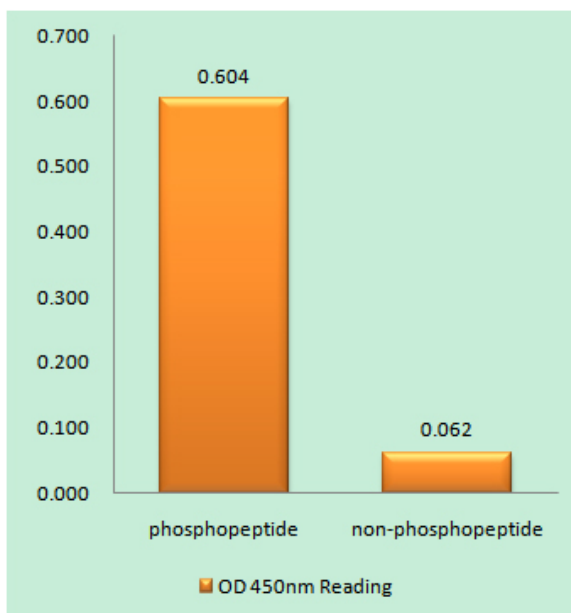
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



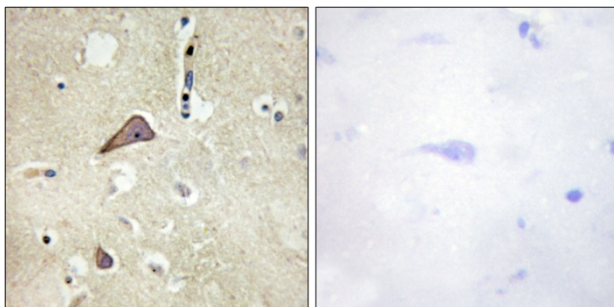
Products Images



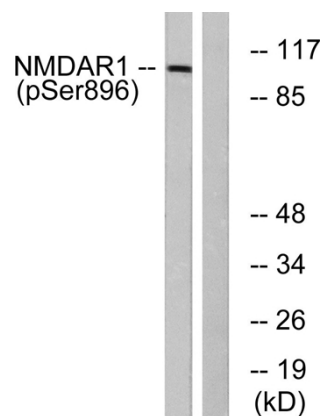
Western Blot analysis of 293T using Phospho-NMDA ζ 1 (S896) Polyclonal Antibody. Antibody was diluted at 1:500



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.