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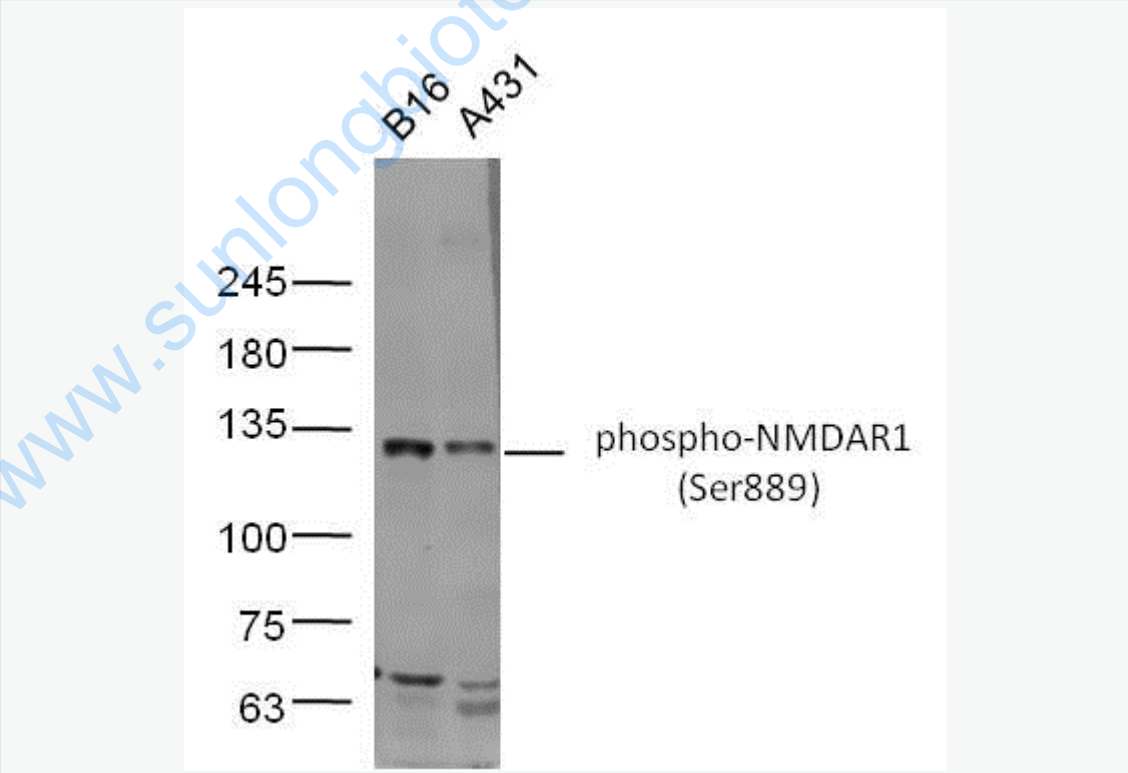
Rabbit Anti-phospho-NMDAR1 (Ser889) antibody

SL19289R

Product Name:	phospho-NMDAR1 (Ser889)
Chinese Name:	磷酸化谷氨酸受体1抗体
Alias:	NMDAR1 (phospho S889); p-NMDAR1 (phospho S889); GluN1; Glutamate [NMDA] receptor subunit zeta 1; Glutamate [NMDA] receptor subunit zeta-1; Glutamate receptor ionotropic N methyl D aspartate 1; Glutamate receptor ionotropic, N-methyl-D aspartate, subunit 1; glutamate receptor ionotropic, NMDA 1; Grin 1; Grin1; MRD8; N methyl D aspartate receptor; N methyl D aspartate receptor channel; N methyl D aspartate receptor channel subunit zeta 1; N methyl D aspartate receptor subunit NR1; N-methyl-D-aspartate receptor subunit NR1; NMD-R1; NMDA 1; NMDA NR1; NMDA R1; NMDA receptor 1; NMDA1; NMDAR 1; NMDAR; Nmdar1; NMDZ1_HUMAN; NR 1; NR1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	105kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human NMDAR1 around the phosphorylation site of Ser889:LA(p-S)SF
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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] **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. **Subcellular Location:** Cell membrane. Cell junction > synapse > postsynaptic cell membrane. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Enriched in post-synaptic plasma membrane and post-synaptic densities. **Post-translational modifications:** 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.10.1) family. NR1/GRIN1 subfamily. **SWISS:** Q05586 **Gene ID:** 2902 **Database links:** Entrez Gene: 2902 Human Entrez Gene: 14810 Mouse Entrez Gene: 24408 Rat

	Omim: 138249 Human SwissProt: Q05586 Human SwissProt: P35438 Mouse SwissProt: P35439 Rat Unigene: 558334 Human Unigene: 278672 Mouse Unigene: 9840 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: B16(Mouse) Cell Lysate at 40 ug

	A431 Cell Lysate at 40 ug Primary: Anti- phospho-NMDAR1 (Ser889)?(SL19289R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 105 kD Observed band size: 130 kD