

Rabbit Anti-NMDAR1 antibody

SL2030R

Product Name:	NMDAR1
Chinese Name:	离子型谷氨酸受体1抗体
Alias:	NMDA-NR1; N-Methyl-d-Asprtate receptor 1; GRIN1; NMDA1; NR1; Glutamate
	[NMDA] receptor subunit zeta 1; Glutamate receptor ionotropic N methyl D aspartate 1;
	Grin 1; Grin1; N methyl D aspartate receptor channel; N-methyl-D-aspartate receptor;
	N-methyl-D-aspartate receptor subunit NR1; NMD-R1; NMDA 1; NMDA NR1; NMDA
	R1; NMDA receptor 1; NMDA1; NMDAR 1; NMDAR; NR 1; NMDZ1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg /testIF=1:100-
	500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	103kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NMDAR1:101-
	200/938 <extracellular></extracellular>
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.

Subunit:

Forms heteromeric channel of a zeta subunit (GRIN1), a epsilon subunit (GRIN2A, GRIN2B, GRIN2C or GRIN2D) and a third subunit (GRIN3A or GRIN3B); disulfidelinked. Found in a complex with GRIN2A or GRIN2B, GRIN3A or GRIN3B and PPP2CB. Interacts with DLG4 and MPDZ. Interacts with LRFN1 and LRFN2. Interacts with MYZAP.

Subcellular Location:

Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Note=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.

DISEASE:

Defects in GRIN1 are the cause of mental retardation autosomal dominant type 8 (MRD8) [MIM:614254]. Mental retardation is characterized by significantly below average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period.

Similarity:

Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR1/GRIN1 subfamily.

SWISS: 005586

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.

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神经细胞Maker

(NMDAR1)N-甲基-D-天门冬氨酸受体(NMDAR)是兴奋性氨基酸受体亚型之一,是由NMDAR1与不同的 NMDAR2亚基组成的异聚体。 近年实验研究发现,许多NMDAR拮抗药均具有镇痛活性,表明NMDAR在痛觉传 递中具有重要作用,这为新型镇痛药的研究开发提供了新的作用靶点。







Acquisition of 20,000 events was performed.

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