



NMDAR1 Rabbit mAb

Catalog No	YP-rAb-17311
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	GRIN1
Protein Name	Glutamate [NMDA] receptor subunit zeta-1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:500-1:2000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	NMDAR1;Glutamate [NMDA] receptor subunit zeta-1;GRIN1 ; NMDAR1 ; Glutamate [NMDA] receptor subunit zeta-1 ; N-methyl -D-aspartate receptor subunit NR1 ; NMD-R1;GRIN1
Observed Band	120kD
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	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 (PP P2CB). 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.,

Background

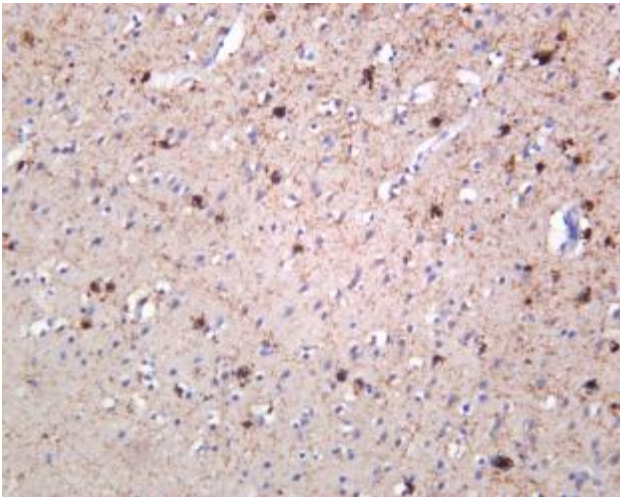
The protein encoded by this gene is a critical subunit of N-methyl-D-aspartate receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. These subunits play a key role in the plasticity 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

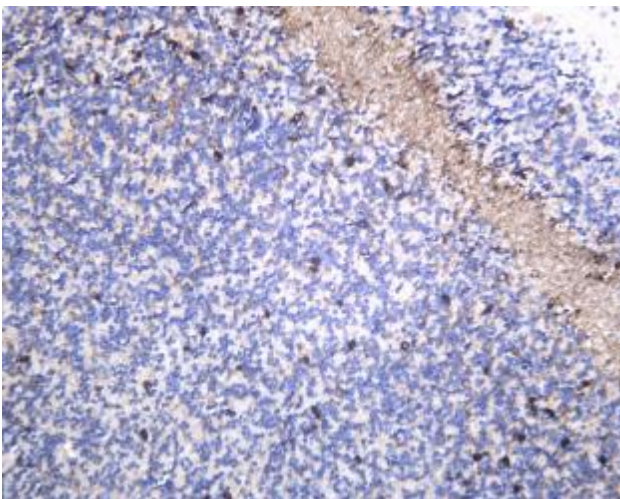
Avoid repeated freezing and thawing!

Usage suggestions

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



Human brain was stained with anti-NMDAR1 Rabbit antibody



Mouse brain was stained with anti-NMDAR1 Rabbit antibody



Immunofluorescence analysis of NIH/3T3 cells, using NMDAR1 Antibody. The picture on the right is blocked with the synthesized peptide.

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CCK8试剂盒、QPCR检测试剂盒

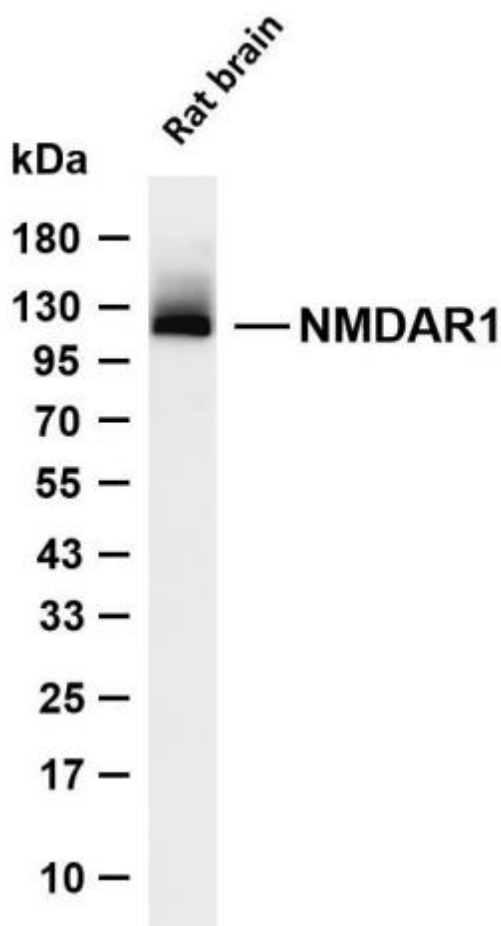
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| 宏基因组、转录组、基因组、蛋白组、代谢组测序



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Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NMDAR1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Rat brain Predicted band size: 105kDa Observed band size: 120kDa

