

**ARG52352**  
anti-NMDAR1 antibody [R1JHL]Package: 15 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [R1JHL] recognizes NMDAR1
Tested Reactivity	Ms, Rat
Tested Application	IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	R1JHL
Isotype	IgG
Target Name	NMDAR1
Species	Rat
Immunogen	Fusion protein containing amino acids 1-564 of the NR1 subunit
Conjugation	Un-conjugated
Alternate Names	NMDA1; GluN1; MRD8; NMD-R1; Glutamate receptor ionotropic, NMDA 1; Glutamate [NMDA] receptor subunit zeta-1; N-methyl-D-aspartate receptor subunit NR1; NR1; NMDAR1

### Application Instructions

Application Note	Specific for the ~120k NR1 subunit of the NMDA receptor. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
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### Properties

Form	Liquid
Purification	Culture supernatant
Buffer	PBS (pH 7.4), 137 mM NaCl, 7.5 mM Na <sub>2</sub> HPO <sub>4</sub> , 2.7 mM KCl and 1.5 mM KH <sub>2</sub> PO <sub>4</sub> .
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

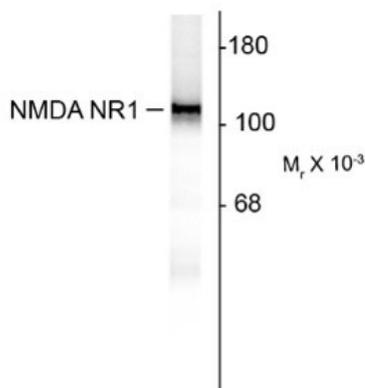
### Bioinformation

Database links	<a href="#">GeneID: 14810 Mouse</a> <a href="#">GeneID: 24408 Rat</a> <a href="#">Swiss-port # P35438 Mouse</a>
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[Swiss-port # P35439 Rat](#)

Gene Symbol	Grin1
Gene Full Name	glutamate receptor, ionotropic, N-methyl D-aspartate 1
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]
Function	NMDA receptor subtype of glutamate-gated ion channels possesses high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. 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. [UniProt]
Research Area	Neuroscience antibody
Calculated Mw	105 kDa
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.

## Images



ARG52352 anti-NMDAR1 antibody [R1JHL] WB image

Western Blot: 10 ug of rat hippocampal (Hipp) lysate showing specific immunolabeling of the ~120k NR1 subunit of the NMDA receptor stained with ARG52352 NMDAR1 antibody [R1JHL]