

## ARG63998 anti-NMDAR1 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes NMDAR1
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms, Dog
Tested Application	WB
Specificity	This antibody is expected to recognise all three reported isoforms (NP_000823.4; NP_067544.1; NP_015566.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NMDAR1
Species	Human
Immunogen	C-TQERVNNSNKKE
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 table	Application	Dilution
	WB	1 - 3 µg/ml

**Application Note** WB: Recommend incubate at RT for 1h.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
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

[GeneID: 24408 Rat](#)

[GeneID: 2902 Human](#)

[Swiss-port # P35439 Rat](#)

[Swiss-port # Q05586 Human](#)

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]

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



ARG63998 anti-NMDAR1 antibody WB image

Western blot: 35 µg of Human amygdala (A) and Rat brain (B) lysates (in RIPA buffer) stained with ARG63998 anti-NMDAR1 antibody at 1 µg/ml dilution and incubated at RT for 1 hour.