

## Product datasheet for **TA323548**

### **NMDAR1 (GRIN1) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-1000
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of serine 896 (R-R-S(p)-S-K) derived from Human NMDAR1.
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	105 kDa
Gene Name:	glutamate ionotropic receptor NMDA type subunit 1
Database Link:	<a href="#">NP_000823</a> <a href="#">Entrez Gene 14810 Mouse</a> <a href="#">Entrez Gene 24408 Rat</a> <a href="#">Entrez Gene 2902 Human</a> <a href="#">Q05586</a>



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**Background:**

NMDA receptors are members of the ionotropic class of glutamate receptors, which also includes Kainate and AMPA receptors. NMDA receptors consist of NR1 subunits combined with one or more NR2 (A-D) or NR3 (A-B) subunits. The ligand-gated channel is permeable to cations including  $\text{Ca}^{2+}$ , and at resting membrane potentials NMDA receptors are inactive due to a voltage-dependent blockade of the channel pore by  $\text{Mg}^{2+}$ . NMDA receptor activation, which requires binding of glutamate and glycine, leads to an influx of  $\text{Ca}^{2+}$  into the postsynaptic region where it activates several signaling cascades, including pathways leading to the induction of long-term potentiation (LTP) and depression (LTD). NMDA receptors have a critical role in excitatory synaptic transmission and plasticity in the CNS. They govern a range of physiological conditions including neurological disorders caused by excitotoxic neuronal injury, psychiatric disorders and neuropathic pain syndromes.

**Synonyms:**

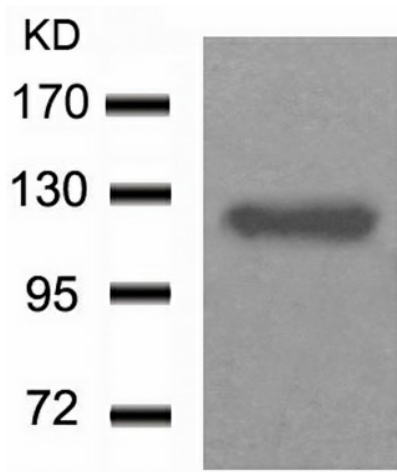
GluN1; MRD8; NMD-R1; NMDA1; NMDAR1; NR1

**Protein Families:**

Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

**Protein Pathways:**

Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Calcium signaling pathway, Huntington's disease, Long-term potentiation, Neuroactive ligand-receptor interaction

**Product images:**

Predicted band size: 105 kDa. Positive control: Mouse Brain tissue lysate. Recommended dilution: 1/ 500-1000. (Gel: 8%SDS-PAGE Lysate: 30 ug Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)