

## Product datasheet for **TA348445**

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

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	WB: 1:500-1:2000
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Modifications:</b>	Phospho-specific
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	The immunogen for anti-Phospho-NMDAR1(Ser897) Antibody: A synthesized peptide derived from human NMDAR1 around the phosphorylation site of Sersine 897
<b>Formulation:</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20?. Stable for 12 months from date of receipt
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Immunogen affinity purified
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	120 kDa
<b>Gene Name:</b>	glutamate ionotropic receptor NMDA type subunit 1
<b>Database Link:</b>	<a href="#">NP_015566</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>



[View online »](#)

**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. The gene consists of 21 exons and is alternatively spliced, producing transcript variants differing in the C-terminus. Although the sequence of exon 5 is identical in human and rat, the alternative exon 5 splicing in rat has yet to be demonstrated in human. Cell-specific factors are thought to control expression of different isoforms, possibly contributing to the functional diversity of the subunits

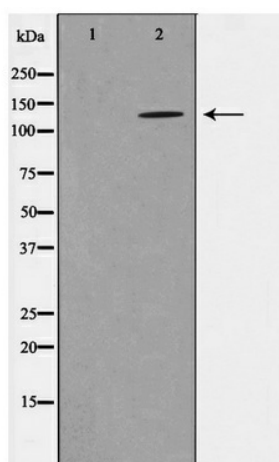
**Synonyms:** GluN1; MRD8; NMD-R1; NMDA1; NMDAR1; NR1

**Note:** Phospho-NMDAR1(Ser897) Antibody detects endogenous levels of NMDAR1 only when phosphorylated at Sersine 897

**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:



Western blot analysis on K562 cell lysate using Phospho-NMDAR1 (Ser897) Antibody