

## Product datasheet for **AP09501PU-S**

### **NMDAR2B (GRIN2B) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF
<b>Recommended Dilution:</b>	Immunofluorescence: 1/100 - 1/200.
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthesized non-phosphopeptide derived from human NMDAR2B around the phosphorylation site of tyrosine 1474 (H-V-YP-EK)
<b>Specificity:</b>	NMDAR2B antibody detects endogenous levels of total NMDAR2B protein.
<b>Formulation:</b>	Phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid purified Ig
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	glutamate ionotropic receptor NMDA type subunit 2B
<b>Database Link:</b>	<a href="#">Entrez Gene 14812 Mouse</a> <a href="#">Entrez Gene 24410 Rat</a> <a href="#">Entrez Gene 2904 Human Q13224</a>



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**Background:**

NMDA receptors are a class of ionotropic glutamate receptors. NMDA receptor channel has been shown to be involved in long term potentiation, an activity dependent increase in the efficiency of synaptic transmission thought to underlie certain types of memory and learning. NMDA receptor channels are heteromers composed of the key receptor subunit NMDAR1 (GRIN1) and 1 or more of the 4 NMDAR2 subunits: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C), and NMDAR2D (GRIN2D). GRIN2B may be a candidate gene for the neurodegenerative disorder dentato-rubro-pallidolusian atrophy (DRPLA). Properties of NMDAR include modulation by glycine, inhibition by Zn<sup>2+</sup>, voltage dependent Mg<sup>2+</sup> blockade and high Ca<sup>2+</sup> permeability. The involvement of NMDAR in the CNS has become a focus area for neurodegenerative diseases such as Alzheimer's disease, epilepsy and ischemic neuronal cell death.

**Synonyms:**

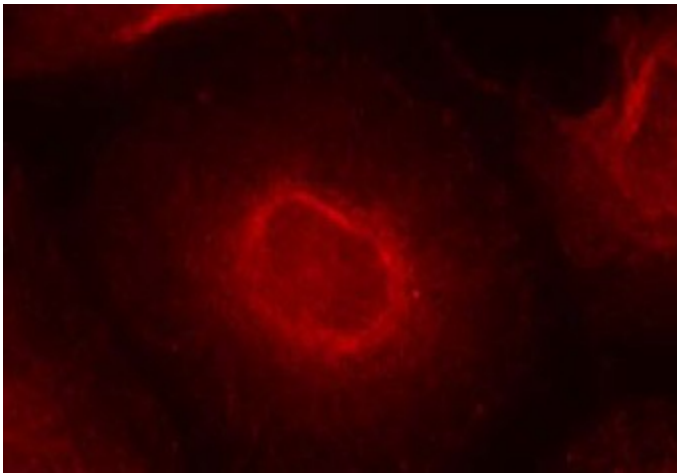
GRIN2B, NMDA Receptor 2B

**Protein Families:**

Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

**Protein Pathways:**

Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Huntington's disease, Long-term potentiation, Neuroactive ligand-receptor interaction, Systemic lupus erythematosus

**Product images:**

Immunofluorescence staining of methanol-fixed HeLa cells using NMDAR2B antibody