

## Product datasheet for **TA350718S**

### **NMDAR2A (GRIN2A) Rabbit Polyclonal Antibody**

#### **Product data:**

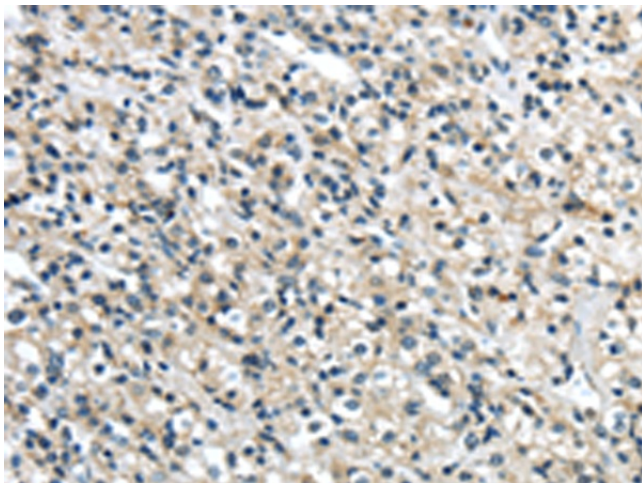
Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human prostate cancer Predicted cell location: Cell membrane
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human GRIN2A
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glutamate ionotropic receptor NMDA type subunit 2A
Database Link:	<a href="#">NP_000824</a> <a href="#">Entrez Gene 14811 Mouse</a> <a href="#">Entrez Gene 24409 Rat</a> <a href="#">Entrez Gene 2903 Human</a> <a href="#">Q12879</a>

**Background:** This gene encodes a member of the glutamate-gated ion channel protein family. The encoded protein is an N-methyl-D-aspartate (NMDA) receptor subunit. NMDA receptors are both ligand-gated and voltage-dependent, and are involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. These receptors are permeable to calcium ions, and activation results in a calcium influx into post-synaptic cells, which results in the activation of several signaling cascades. Disruption of this gene is associated with focal epilepsy and speech disorder with or without mental retardation. Alternative splicing results in multiple transcript variants.

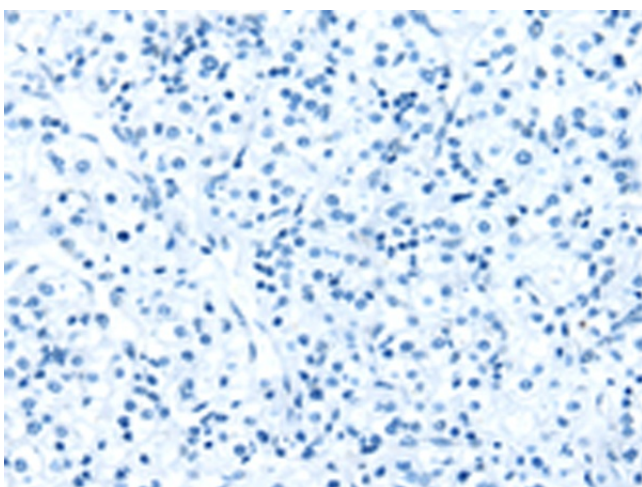


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<b>Synonyms:</b>	EPND; FESD; GluN2A; LKS; NMDAR2A; NR2A
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Glutamate Receptors, Ion Channels: Sodium, Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Calcium signaling pathway, Long-term potentiation, Neuroactive ligand-receptor interaction, Systemic lupus erythematosus

**Product images:**

Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using [TA350718] (GRIN2A Antibody) at dilution 1/35 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using [TA350718] (GRIN2A Antibody) at dilution 1/35, treated with synthetic peptide. (Original magnification: ×200)