

## Product datasheet for **TA323550**

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

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 35-49 amino acids of human glutamate receptor, ionotropic, N-methyl D-aspartate 1
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.
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>

**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.



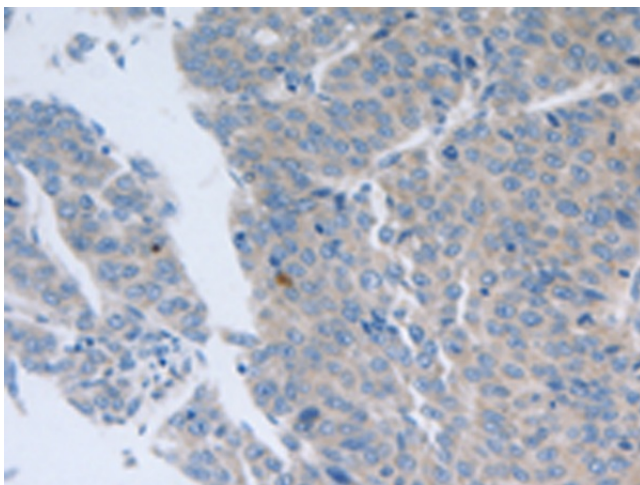
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**Synonyms:** GluN1; MRD8; NMD-R1; NMDA1; NMDAR1; NR1

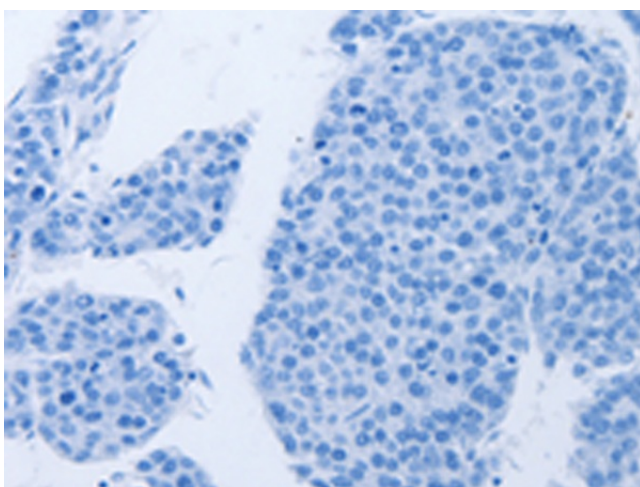
**Protein Families:** Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

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

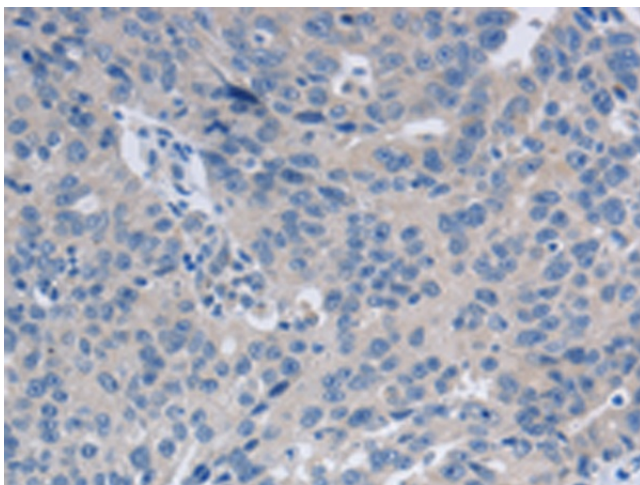
**Product images:**



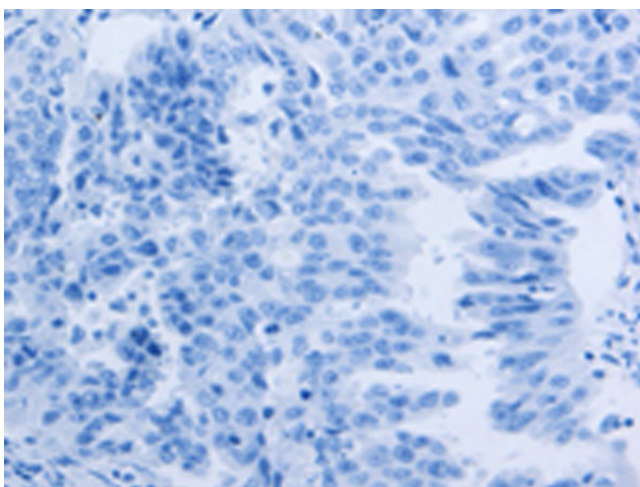
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA323550 (GRIN1 Antibody) at dilution 1/50 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA323550 (GRIN1 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA323550 (GRIN1 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA323550 (GRIN1 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification:  $\times 200$ )