

Product datasheet for **TA323557S**

Ionotropic Glutamate receptor 2 (GRIA2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 263-276 amino acids of Human glutamate receptor, ionotropic, AMPA 2
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% 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 AMPA type subunit 2
Database Link:	NP_000817 Entrez Gene 14800 Mouse Entrez Gene 29627 Rat Entrez Gene 2891 Human P42262



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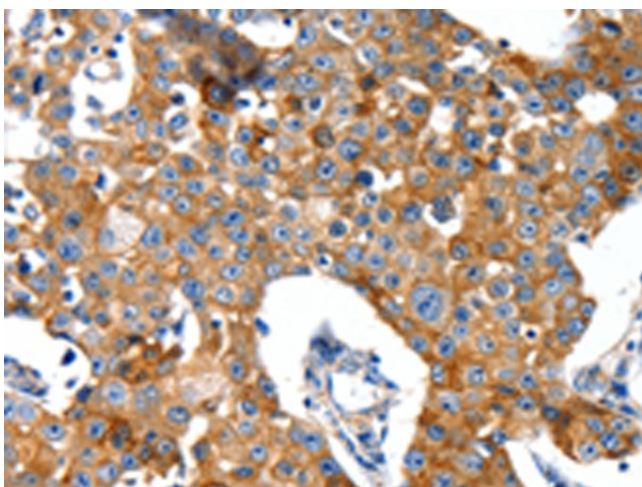
Background: Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA); and function as ligand-activated cation channels. These channels are assembled from 4 related subunits; GRIA1-4. The subunit encoded by this gene (GRIA2) is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain; which is thought to render the channel impermeable to Ca(2+). Human and animal studies suggest that pre-mRNA editing is essential for brain function; and defective GRIA2 RNA editing at the Q/R site may be relevant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing; resulting in transcript variants encoding different isoforms; (including the flip and flop isoforms that vary in their signal transduction properties); has been noted for this gene.

Synonyms: GluA2; GluR-K2; GLUR2; GLURB; HBGR2

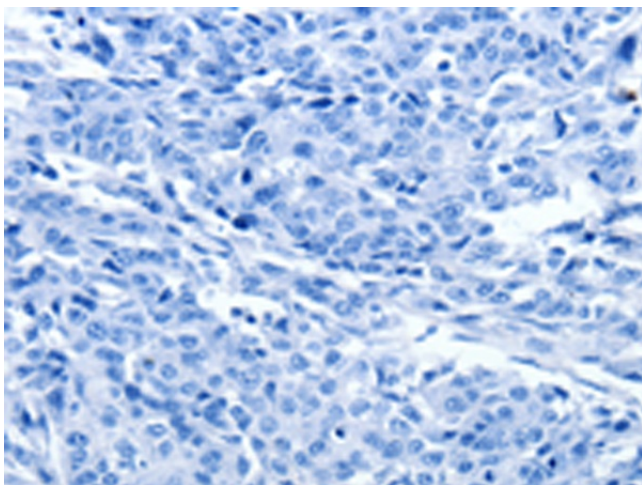
Protein Families: Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Long-term depression, Long-term potentiation, Neuroactive ligand-receptor interaction

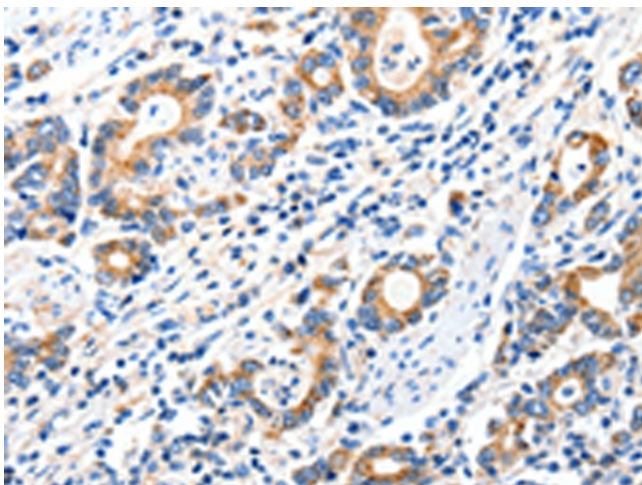
Product images:



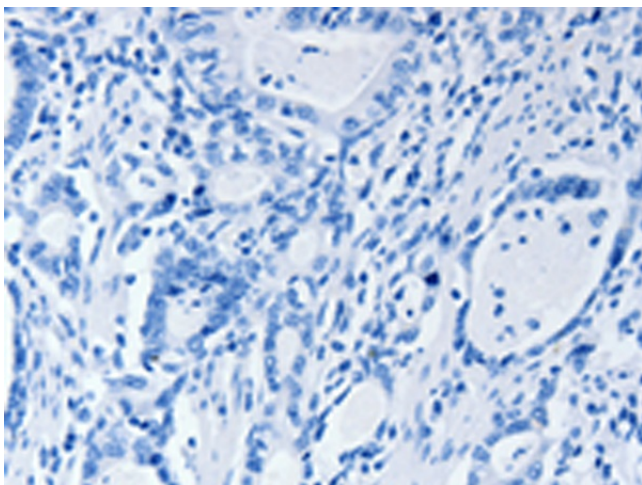
Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA323557] (GRIA2 Antibody) at dilution 1/40 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA323557] (GRIA2 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA323557] (GRIA2 Antibody) at dilution 1/40 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA323557] (GRIA2 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: $\times 200$)