

Product datasheet for **TA323557**

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 |
| 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 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:

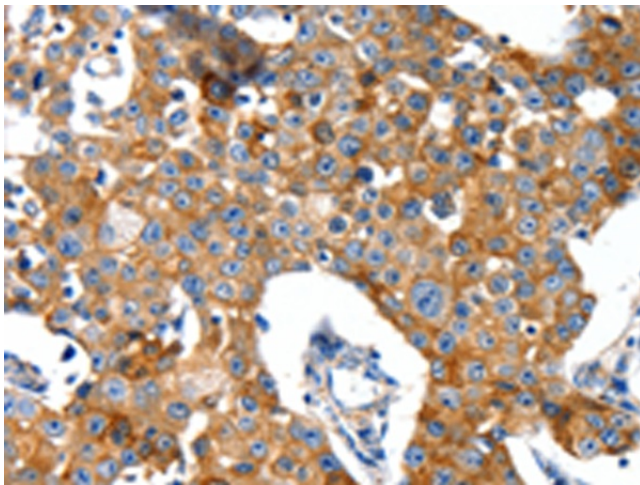
GluA2; GluR-K2; GLUR2; GLURB; HBGR2

Protein Families:

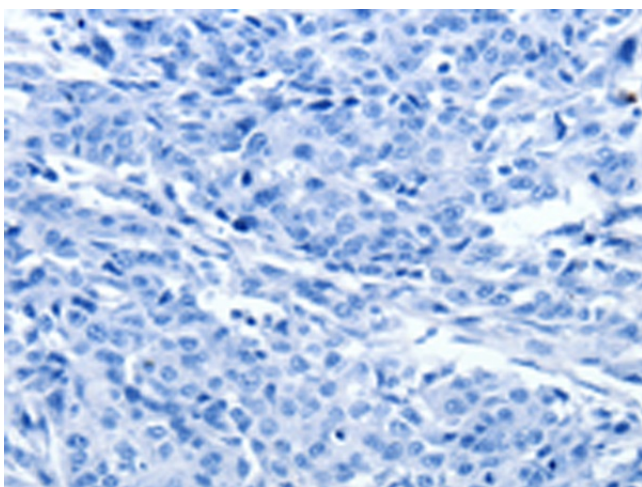
Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Protein Pathways:

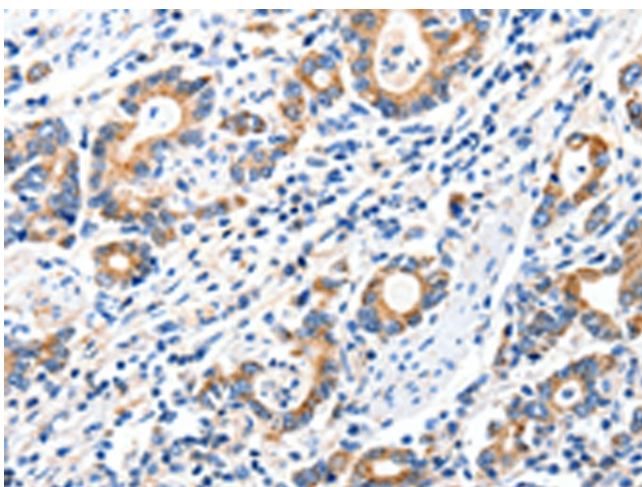
Amyotrophic lateral sclerosis (ALS), Long-term depression, Long-term potentiation, Neuroactive ligand-receptor interaction

Product images:

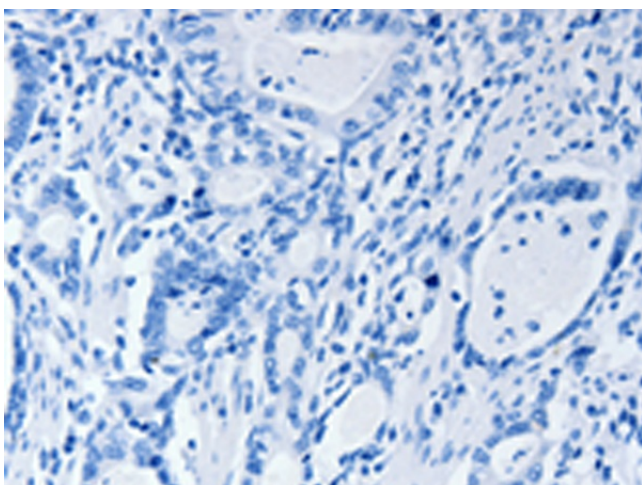
Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA323557 (GRIA2 Antibody) at dilution 1/40 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA323557 (GRIA2 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA323557 (GRIA2 Antibody) at dilution 1/40 (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA323557 (GRIA2 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: x200)