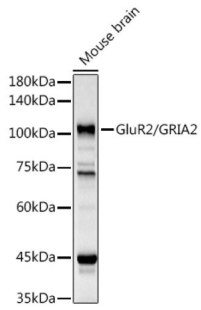
# Glutamate Receptor 2 (GRIA2) Antibody

Catalogue No.:abx000558




Western blot analysis of extracts of Mouse brain using GluR2/GRIA2 Antibody (1/1000 dilution).

GRIA2 Antibody is a Rabbit Polyclonal antibody against GRIA2. 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.

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| **Target:** | Glutamate Receptor 2 (GRIA2) |
| **Clonality:** | Polyclonal |
| **Reactivity:** | Human, Mouse, Rat |
| **Tested Applications:** | WB |
| **Host:** | Rabbit |
| **Recommended dilutions:** | WB: 1/500 - 1/2000. Optimal dilutions/concentrations should be determined by the end user. |
| **Conjugation:** | Unconjugated |
| **Immunogen:** | Recombinant fusion protein corresponding to human GRIA2 |
| **Isotype:** | IgG |
| **Form:** | Liquid |
| **Purification:** | Purified by affinity chromatography. |
| **Storage:** | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles. |




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|---|---|
| **UniProt Primary AC:** | P42262 (UniProt, ExPASy) |
| **Gene Symbol:** | GRIA2 |
| **GeneID:** | 2891 |
| **OMIM:** | 138247 |
| **NCBI Accession:** | NP_001077088.1 |
| **HGNC:** | 4572 |
| **KEGG:** | hsa:2891 |
| **Ensembl:** | ENSG00000120251 |
| **String:** | 9606.ENSP00000296526 |
| **Molecular Weight:** | Calculated MW: 93 kDa/98 kDa/100 kDa<br>Observed MW: 100 kDa |
| **Buffer:** | PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol. |
| **Concentration:** | 1 mg/ml |
| **Note:** | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |




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