

# GRIA2 Rabbit Polyclonal Antibody



CAB0111

## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

110kDa

### Calculated MW:

93kDa/98kDa/100kDa

### Applications:

WB IF

### Reactivity:

Human, Mouse, Rat

## Antibody Information

### Recommended dilutions:

WB 1:500 - 1:2000 IF 1:50 - 1:200

### Source:

Rabbit

### Isotype:

IgG

### Purification:

Affinity purification

## Protein 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.

## Immunogen information

### Gene ID:

2891

### Uniprot

P42262

### Synonyms:

GRIA2; GLUR2; GLURB; GluA2; GluR-K2; HBGR2

### Immunogen:

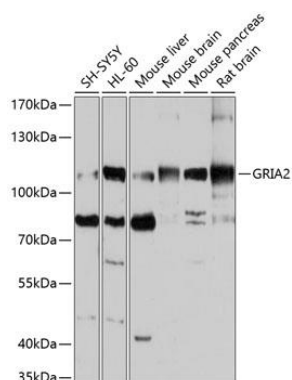
Recombinant fusion protein containing a sequence corresponding to amino acids 25-230 of human GRIA2 (NP\_001077088.1).

### Storage:

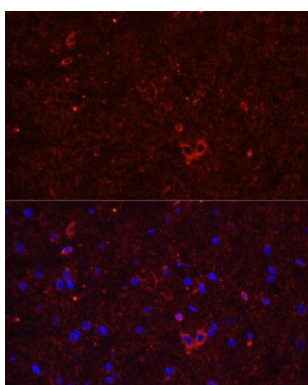
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

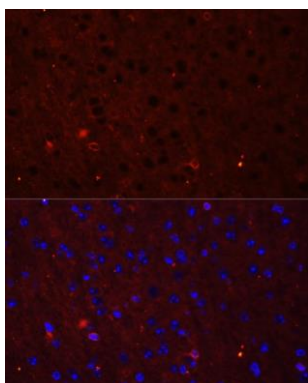
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Western blot analysis of extracts of various cell lines, using GRIA2 antibody (CAB0111) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 10s.



Immunofluorescence analysis of rat brain using GRIA2 antibody (CAB0111) at dilution of 1:50. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of mouse brain using GRIA2 antibody (CAB0111) at dilution of 1:50. Blue: DAPI for nuclear staining.