

GluR2/GRIA2 Rabbit pAb

Catalog No.: A0111 **2 Publications**

Basic Information

Catalog No.

A0111

Observed MW

100kDa

Calculated MW

93kDa/98kDa/100kDa

Category

Primary antibody

Applications

WB, IF

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

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

Contact

 | www.abclonal.com

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	Swiss Prot
2891	P42262

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 25-230 of human GluR2/GluR2/GRIA2 (NP_001077088.1).

Synonyms

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

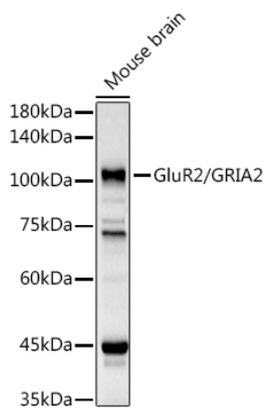
Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

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

Validation Data



Western blot analysis of extracts of Mouse brain, using GluR2/GRIA2 antibody (A0111) at 1:1000 dilution.

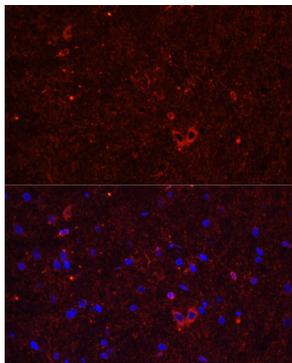
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

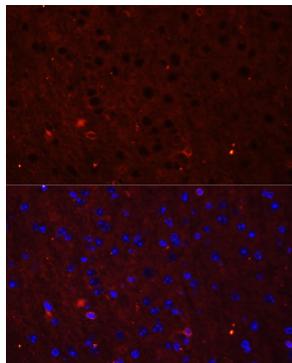
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Immunofluorescence analysis of rat brain using GluR2/GluR2/GRIA2 antibody (A0111) at dilution of 1:50. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of mouse brain using GluR2/GluR2/GRIA2 antibody (A0111) at dilution of 1:50. Blue: DAPI for nuclear staining.