Phospho-GluR2/GRIA2-S880 Rabbit pAb

Catalog NO.: AP0257 **2 Publications**

Basic Information

Observed MW
120kDa

Calculated MW
99kDa

Category
Phosphorylated Antibodies

Applications
WB

Cross-Reactivity
Human, Mouse, Rat

Conjugation
Unconjugated

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.

Recommended Dilutions

WB	1:500 - 1:2000

Immunogen Information

Gene ID
2891

Swiss Prot
P42262

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
GLUR2; GLURB; GluA2; HBGR2; NEDLIB; gluR-2; gluR-B; GluR-K2; Phospho-GluR2/GRIA2-S880

Contact

Product Information

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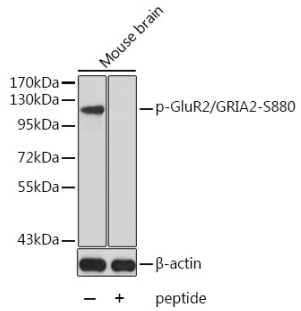
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of lysates from mouse brain tissue using Phospho-GluR2/GRIA2-S880 Rabbit pAb (AP0257) and the same antibody preincubated with blocking peptide.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.

For research use only. Not for therapeutic or diagnostic purposes.

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