

Anti-GluR1-Subunit (Ser831) Antibody

Our Anti-GluR1-Subunit (Ser831) rabbit polyclonal phosphospecific primary antibody from PhosphoSolut
Catalog # AN1416

Specification

Anti-GluR1-Subunit (Ser831) Antibody - Product Information

Primary Accession	P19490
Reactivity	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	101579

Anti-GluR1-Subunit (Ser831) Antibody - Additional Information

Gene ID **50592**

Other Names

GLUR 1 antibody, GLUR A antibody, AMPA 1 antibody, AMPA selective glutamate receptor 1 antibody, AMPA-selective glutamate receptor 1 antibody, GluA1 antibody, GLUH1 antibody, GluR K1 antibody, GluR-1 antibody, GluR-A antibody, GluR-K1 antibody, GLUR1 antibody, GLURA antibody, GluRK1 antibody, Glutamate receptor 1 antibody, Glutamate receptor ionotropic AMPA 1 antibody, Glutamate receptor ionotropic antibody, Glutamate receptor, ionotropic, AMPA 1 antibody, Gria1 antibody, GRIA1_HUMAN antibody, HBGR1 antibody, MGC133252 antibody, OTTHUMP00000160643 antibody, OTTHUMP00000165781 antibody, THUMP00000224241 antibody, OTTHUMP00000224242 antibody, OTTHUMP00000224243 antibody

Target/Specificity

The ion channels activated by glutamate are typically divided into two classes. Those that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR) while those activated by α -amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as AMPA receptors (AMPA). The AMPAR are comprised of four distinct glutamate receptor subunits designated (GluR1-4) and they play key roles in virtually all excitatory neurotransmission in the brain (Keinänen et al., 1990; Hollmann and Heinemann, 1994). The GluR1 subunit is widely expressed throughout the nervous system. GluR1 is potentiated by phosphorylation at Ser-831 which has been shown to be mediated by either PKC or CaM kinase II (McGlade-McCulloh et al., 1993; Mammen et al., 1999; Roche et al., 1996). In addition, phosphorylation of this site has been linked to synaptic plasticity as well as learning and memory (Soderling and Derkach, 2000).

Format

Antigen Affinity Purified from Pooled Serum

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-GluR1-Subunit (Ser831) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

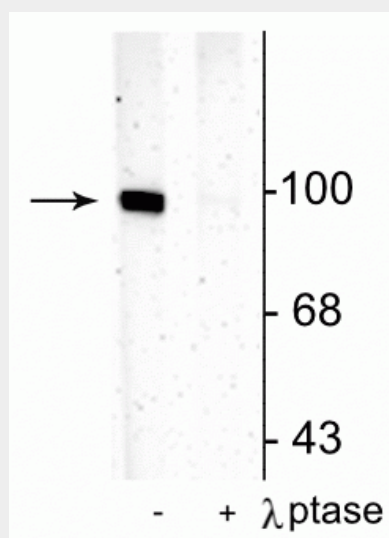
Blue Ice

Anti-GluR1-Subunit (Ser831) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-GluR1-Subunit (Ser831) Antibody - Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~100 kDa GluR1 protein phosphorylated at Ser831 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ -Ptase, 1200 units for 30 min).

Anti-GluR1-Subunit (Ser831) Antibody - Background

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