

**GluR1 Antibody**  
Purified mouse monoclonal antibody  
Catalog # AN1189**Specification**

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**GluR1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P19490</a>
Reactivity	Mouse, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a
Calculated MW	100 KDa

**GluR1 Antibody - Additional Information**

Gene ID	50592
Gene Name	GRIA1

**Other Names**

Glutamate receptor 1, GluR-1, AMPA-selective glutamate receptor 1, GluR-A, GluR-K1, Glutamate receptor ionotropic, AMPA 1, GluA1, Gria1, Glur1

**Target/Specificity**

Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

**Dilution**

WB~~ 1:1000

**Format**

Protein G purified culture supernatant

**Antibody Specificity**

Specific for the ~105k GluR1 protein.

**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**

GluR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

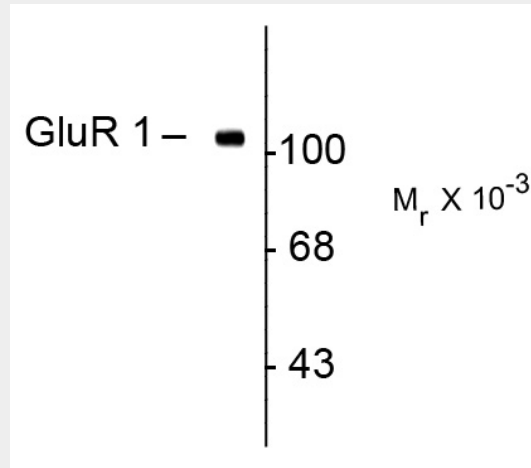
Blue Ice

**GluR1 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](#)

### **GluR1 Antibody - Images**



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~ 105k GluR1 protein.

### **GluR1 Antibody - Background**

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  $\alpha$ -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).

### **GluR1 Antibody - References**

Chung HJ, Steinberg JP, Haganir RL, Linden DJ (2003) Requirement of AMPA receptor GluR2 phosphorylation for cerebellar long-term depression. *Science* 300:1751-1755.  
Hollmann M, Heinemann S (1994) Cloned glutamate receptors. *Annu Rev Neurosci* 17:31-108.  
Keinänen K, Wisden W, Sommer B, Werner P, Herb A, Verdoorn TA, Sakmann B, Seeburg PH (1990) A family of AMPA-selective glutamate receptors. *Science* 249:556-560.