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GluR1 Antibody
Purified mouse monoclonal antibody
Catalog # AN1189

Specification

GluR1 Antibody - Product Information

Application	**WB**
Primary Accession	P19490
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

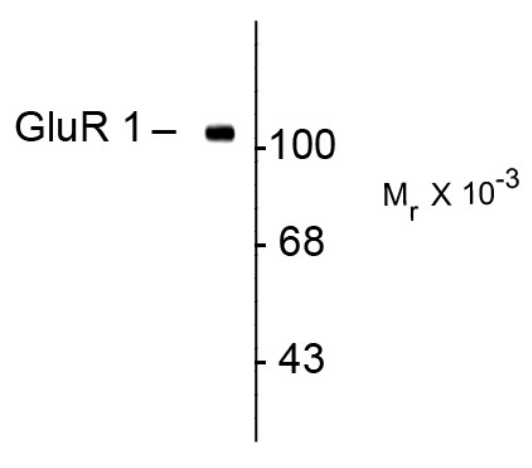
GluR1 Antibody - Protocols

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

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- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GluR1 Antibody - Images



Western blot of rat hippocampal lysate showing specific immunolabelingof 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 α-amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as AMPA receptors (AMPAR). 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, Huganir 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.