

GluR2 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1082**Specification**

GluR2 Antibody - Product Information

Application	WB
Primary Accession	P19491
Reactivity	Rat
Predicted	Chicken, Human, Mouse, Monkey, Zebrafish
Host	Rabbit
Clonality	polyclonal
Calculated MW	100 KDa

GluR2 Antibody - Additional Information

Gene ID	29627
Gene Name	GRIA2

Other Names

Glutamate receptor 2, GluR-2, AMPA-selective glutamate receptor 2, GluR-B, GluR-K2, Glutamate receptor ionotropic, AMPA 2, GluA2, Gria2, Glur2

Target/Specificity

Synthetic peptide corresponding to amino acid residues specific to GluR2 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification on a column made with the peptide antigen.

Antibody Specificity

Specific for the ~100k GluR2 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

GluR2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

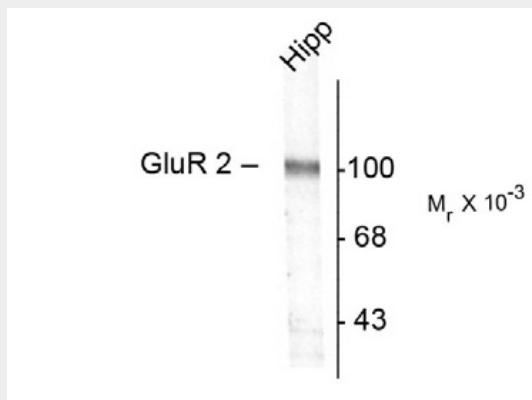
Blue Ice

GluR2 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](#)

GluR2 Antibody - Images



Western blot of a rat hippocampal (Hipp) lysate showing the specific immunolabeling of the ~100k GluR2 protein.

GluR2 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 (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 GluR2 subunit is thought to play a key role in forms of synaptic plasticity such as LTD (Chung et al., 2003)

GluR2 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.