

Anti-GluR2 Antibody

Product Data Sheet · P/N 74096 Rev 01 · Reissued 2026-09-19 (layout only)

Product code	Pack size
P40014-100	100 µL
Host Species	Rabbit (Polyclonal)
Mr (kDa)	100

Description

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).

Immunogen

Peptide corresponding to amino acid residues from rat GluR2, conjugated to keyhole limpet hemocyanin (KLH).

Species Reactivity

The antibody has been directly tested for reactivity in Western blots with rat tissue.

It is anticipated that the antibody will also react with chicken, human, mouse, non-human primates and zebra fish based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

Physical State

Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol

Purification Method

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

Recommended Antibody Dilutions

WB: 1:1000

Storage/Stability

Stable at -20 °C for at least 1 year.

For long term storage -20 °C is recommended

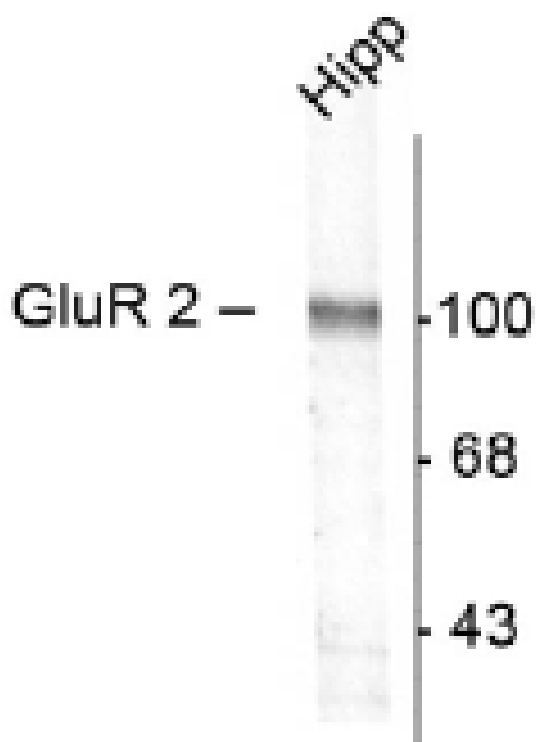
Shipping Conditions

Domestic: Blue Ice

International: Blue Ice or Dry Ice

References

- 1) Chung HJ et al. (2003) Science 300:1751-1755.
- 2) Hollmann M et al. (1994) Annu Rev Neurosci 17:31-108.
- 3) Keinänen K et al. (1990) Science 249:556-560.



Western Blot Rat hippocampal lysate showing specific immunolabeling of the ~ 100k GluR2 protein.

For research use or further manufacturing only. Not for use in diagnostic procedures, or for human or animal consumption.