

Anti-GluR2/3 Antibody

Product Data Sheet · P/N 74097 Rev 01 · Reissued 2026-09-19 (layout only)

Product code	Pack size
P40015-100	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 widely expressed throughout the nervous system where it is thought to play key roles in synaptic plasticity and learning and memory (Duprat et al., 2003; Seidenman et al., 2003; Chung et al., 2003; Yan et al., 2002).

Immunogen

Peptide corresponding to amino acid residues from the C-terminal region of rat GluR2/3.

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 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 via chromatography on an affinity column made with the C-terminal peptide used as 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

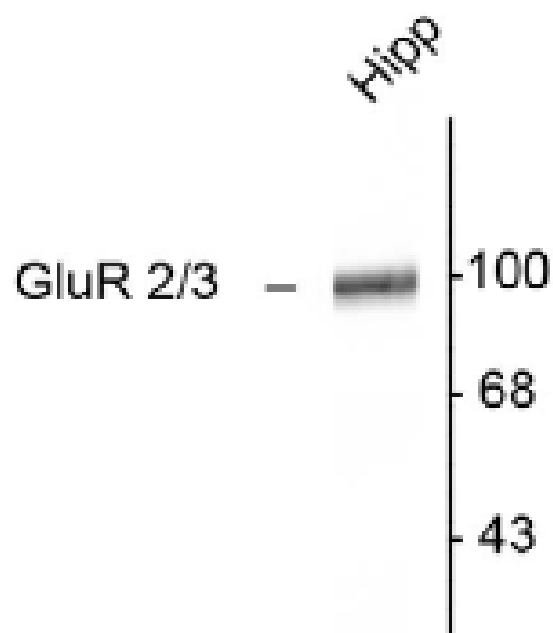
International: Blue Ice or Dry Ice

References

- 1) Chung HJ et al. (2003) Science 300:1751-1755.
- 2) Duprat F et al. (2003) Philos Trans R Soc Lond B Biol Sci 358:715-720.
- 3) Hollmann M et al. (1994) Annu Rev Neurosci 17:31-108.
- 4) Keinänen K et al. (1990) Science 249:556-560.

5) Seidenman KJ et al. (2003) J Neurosci 23:9220-9228.

6) Yan J et al. (2002) J Neurosci 22:NIL7-NIL11.



Western Blot Rat hippocampal lysate showing specific immunolabeling of the ~ 100k GluR2/3 protein.

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