

PRODUCT DATA SHEET**Product Name:** ANTI-GluR2/3 ANTIBODY**Product Code:** P40015-100**Pack Size:** 100 µL

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).

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

Storage/Stability: Stable at -20 °C for at least 1 year. For long term storage -20 °C is recommended

Purification Method: Prepared from rabbit serum by affinity purification via chromatography on an affinity column made with the C-terminal peptide used as antigen.

Shipping Conditions: Domestic: Blue Ice
International: Blue Ice or Dry Ice

Host Species: Rabbit (Polyclonal)**Mr (kDa):** 100

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

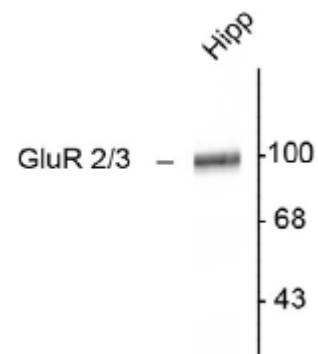
Species Reactivity: The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will also react with chicken, human, mouse and zebra fish based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

Recommended Antibody Dilutions:**WB: 1:1000****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.

**Application Key:** WB – Western Blot IF – Immunofluorescence IHC – Immunohistochemistry IP - Immunoprecipitation

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

P/N: 74097 Rev 01