

PRODUCT DATA SHEET

Product Name: ANTI-GluR2 ANTIBODY

Product Code: P40014-100

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

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 on a column made with the peptide 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 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.

Recommended Antibody Dilutions:

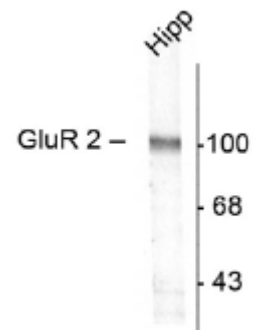
WB: 1:1000

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.



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