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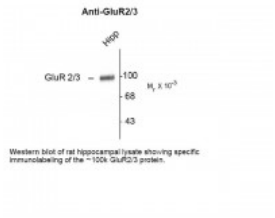
GluR2/3 Antibody

CATALOG NUMBER: 50-219



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

Specifications

SPECIES REACTIVITY:	
TESTED APPLICATIONS:	
APPLICATIONS:	The antibody has been directly tested for reactivity in Western blots with human 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.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
PREDICTED MOLECULAR WEIGHT:	100
IMMUNOGEN:	Peptide corresponding to amino acid residues from the C-terminal region of rat GluR2/3
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Affinity Purified
PHYSICAL STATE:	Liquid
BUFFER:	100 uL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per mL BSA and 50% glycerol.
STORAGE CONDITIONS:	GluR2/3 antibody can be stored at -20˚C and is stable at -20˚C for at least 1 year.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	GluA2, GluR2, gluR-B, GluR-K2, Glur2, AMPA-selective glutamate receptor 2, GluR-2
ACCESSION NO.:	P19491
PROTEIN GI NO.:	3287964
OFFICIAL SYMBOL:	Gria2
GENE ID:	29627

Background

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 alpha-amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as AMPA receptors (AMPAR). 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).
REFERENCES:	1) Chung HJ, Steinberg JP, Huganir RL, Linden DJ (2003) Requirement of AMPA receptor GluR2 phosphorylation for cerebellar long-term depression. Science 300:1751-1755.
	2) Hollmann M, Heinemann S (1994) Cloned glutamate receptors. Annu Rev Neurosci 17:31-108.
	3) 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.

FOR RESEARCH USE ONLY

December 13, 2016