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Product datasheet for AP08678PU-N

Ionotropic Glutamate receptor 2 (GRIA2) (+ GLUR3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	**Western blot:** 1/1000.
Reactivity:	Chicken, Human, Mouse, Rat, Zebrafish
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide corresponding to amino acid residues from the C-terminal region of rat GluR2/3.
Specificity:	This antibody is specific for endogenous levels of the ~100 kDa GluR2/3 protein.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Purification:	Affinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glutamate ionotropic receptor AMPA type subunit 2
Database Link:	Entrez Gene 14800 Mouse Entrez Gene 29627 Rat Entrez Gene 2891 Human P42262

View online »

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 □-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).

Synonyms: GluR-B, GluR-K2, Glutamate receptor ionotropic, AMPA2, GRIA2

Protein Families: Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Long-term depression, Long-term potentiation, Neuroactive ligand-receptor interaction

Product images:

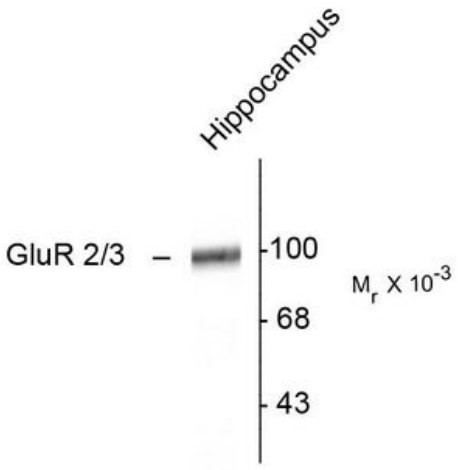

Figure 1. Western blot of rat Hippocampal lysate showing specific immunolabeling of the ~100k GluR2/3 protein.