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ARG52317
anti-GluR2 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GluR2
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Chk, NHuPrm, Zfsh
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GluR2
Species	Rat
Immunogen	Synthetic peptide corresponding to amino acid residues specific to GluR2 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	AMPA-selective glutamate receptor 2; GluA2; GluR-K2; Glutamate receptor ionotropic, AMPA 2; GluR-2; HBGR2; GLUR2; GluR-B; Glutamate receptor 2; GLURB

Application Instructions

Application table

Application	Dilution
WB	1:1,000

Application Note: Specific for the ~100k GluR2 protein.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

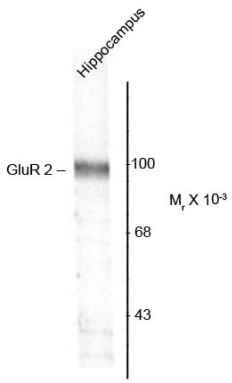
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 29627 Rat
	Swiss-port # P19491 Rat
Gene Symbol	GRIA2
Gene Full Name	glutamate receptor, ionotropic, AMPA 2
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 α-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 thought to play a key role in forms of synaptic plasticity such as LTD (Chung et al., 2003)
Research Area	Neuroscience antibody
Calculated Mw	99 kDa
PTM	Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-610 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-836 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis (By similarity).

Images



ARG52317 anti-GluR2 antibody WB image

Western Blot: rat hippocampal lysate showing the specific immunolabeling of the ~100k GluR2 protein stained with GluR2 antibody (ARG52317).