

# ARG52319 anti-GluR2 subunit phospho (Ser880) antibody

Package: 50 μl Store at: -20°C

# Summary

Product Description	Rabbit Polyclonal antibody recognizes GluR2 subunit phospho (Ser880)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, NHuPrm, Zfsh
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	lgG
Target Name	GluR2 subunit
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser880 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 prot * The dilutions indicate recommons should be determined by the scie	ein phosphorylated at Ser880. ended starting dilutions and the optimal dilutions or concentrations ntist.

# 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 number of GluR2 subunits in the AMPA receptor complex affects the Ca2+ permeability, rectification and single-channel conductance of AMPA receptors. Ser880 has been identified as the PKC phosphorylation site within the C-terminal region of GluR2 and has been shown to differentially regulate the interaction of the PDZ domain-containing proteins GRIP1 and PICK 1 (Matsuda et al., 1999)
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



#### ARG52319 anti-GluR2 subunit phospho (Ser880) antibody WB image

Western blot: Rat brain homogenate showing specific immunolabeling of the ~100 kDa GluR2 protein phosphorylated at Ser880 (control) stained with ARG52319 anti-GluR2 subunit phospho (Ser880) antibody. Immunolabeling is blocked by preadsorption with the phospho-peptide used as antigen (Peptide) but not by the corresponding dephospho-peptide (not shown).