

ARG52314 anti-GluR1 antibody [RH95]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [RH95] recognizes GluR1
Tested Reactivity	Ms, Rat
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	RH95
Isotype	IgG2a
Target Name	GluR1
Species	Rat
Immunogen	KLH-conjugated synthetic peptide around the N-terminal region of Rat GluR1.
Conjugation	Un-conjugated
Alternate Names	GLUH1; GluA1; GluR-1; Glutamate receptor ionotropic, AMPA 1; GluR-K1; GLUR1; HBGR1; AMPA-selective glutamate receptor 1; GluR-A; GLURA; Glutamate receptor 1

Application Instructions

Application table	Application	Dilution
	WB	1:1,000
Application Note	<p>Specific for the ~105k GluR1 protein.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

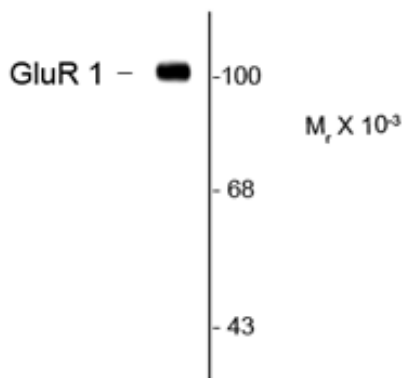
Properties

Form	Liquid
Purification	Protein G 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: 14799 Mouse GeneID: 50592 Rat Swiss-port # P19490 Rat Swiss-port # P23818 Mouse
Gene Symbol	GRIA1
Gene Full Name	glutamate receptor, ionotropic, AMPA 1
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 (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).
Highlight	Related Antibody Duos and Panels: ARG30131 Postsynaptic Receptor Antibody Panel (NMDAR2A, NMDAR2B, GluR1) ARG30132 Phospho GluR1 Antibody Panel Related products: GluR1 antibodies; GluR1 Duos / Panels; Anti-Mouse IgG secondary antibodies;
Research Area	Neuroscience antibody; Postsynaptic Receptor antibody
Calculated Mw	102 kDa
PTM	Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-603 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-829 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis (By similarity). Phosphorylated at Ser-645. Phosphorylated at Ser-710 by PKC. Phosphorylated at Ser-849 by PKC, PKA and CAMK2. Phosphorylated at Ser-863 by PKC, PKA and PRKG2.

Images



ARG52314 anti-GluR1 antibody [RH95] WB image

Western blot: Rat hippocampal lysate stained with ARG52314 anti-GluR1 antibody [RH95].