

ARG22247 anti-GluR1 antibody [S355-1]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [S355-1] recognizes GluR1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Specificity	Detects ~100kDa. Does not cross-react with GluR2.
Host	Mouse
Clonality	Monoclonal
Clone	S355-1
Isotype	IgG1
Target Name	GluR1
Species	Rat
Immunogen	Fusion protein around aa. 1-389 (extracellular N-terminus) 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
	ICC/IF	1:100
	IHC-P	1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.1% Sodium azide and 50% Glycerol
Preservative	0.1% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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.

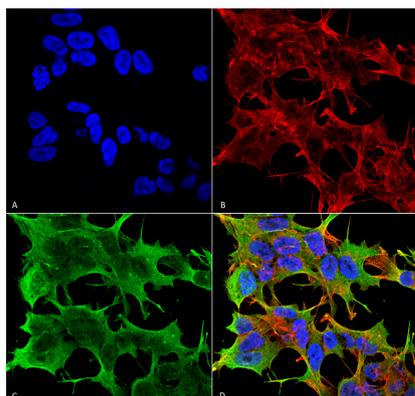
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

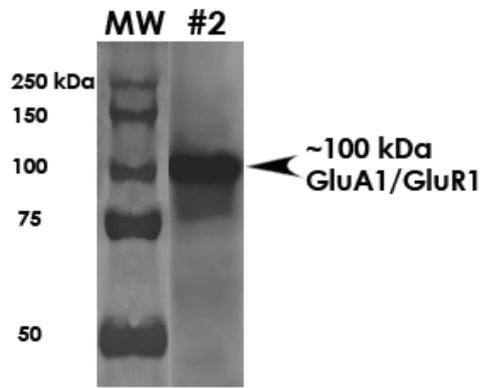
Gene Symbol	Gria1
Gene Full Name	glutamate receptor, ionotropic, AMPA 1
Background	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate. [UniProt]
Highlight	Related products: GluR1 antibodies ; GluR1 Duos / Panels ; Anti-Mouse IgG secondary antibodies ; Related news: Viral-like capsids, new trans-synaptic mRNA transport mechanism
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.
Cellular Localization	Cell Junction, Cell membrane, Endoplasmic Reticulum

Images



ARG22247 anti-GluR1 antibody [S355-1] ICC/IF image

Immunofluorescence: Human Neuroblastoma cell line SK-N-BE. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: ARG22247 anti-GluR1 antibody [S355-1] at 1:100 for 60 min at RT. Secondary Antibody: Goat anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ARG22247 anti-GluR1 antibody [S355-1] (D) Composite.



ARG22247 anti-GluR1 antibody [S355-1] WB image

Western blot: 1) MW ladder, 2) 10 µg of Rat brain membrane lysates stained with ARG22247 anti-GluR1 antibody [S355-1] at 1:2000 dilution (60 min at RT). Block: 5% milk + TBST O/N at 4°C.