

Rabbit GluR1 Polyclonal Antibody | anti-GluR1 antibody

GluR1 Antibody

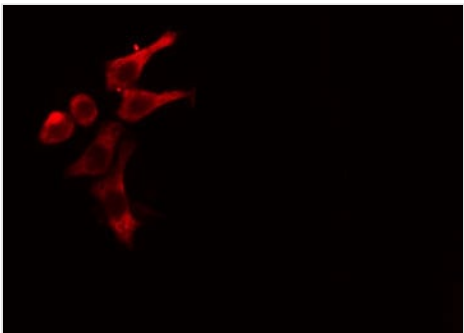
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322317	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GluR1; Polyclonal Antibody; GluR1 Antibody; GLUR 1; GLUR A; AMPA 1; AMPA selective glutamate receptor 1; AMPA-selective glutamate receptor 1; GluA1; GLUH1; GluR K1; GluR-1; GluR-A; GluR-K1; GLUR1; GLURA; GluRK1; Glutamate receptor 1; Glutamate receptor ionotropic AMPA 1; Glutamate receptor ionotropic; Glutamate receptor; ionotropic; Gria1; GRIA1_HUMAN; HBGR1; MGC133252; OTTHUMP00000160643; OTTHUMP00000165781; OTTHUMP00000224241; OTTHUMP00000224242; OTTHUMP00000224243; anti-GluR1 antibody

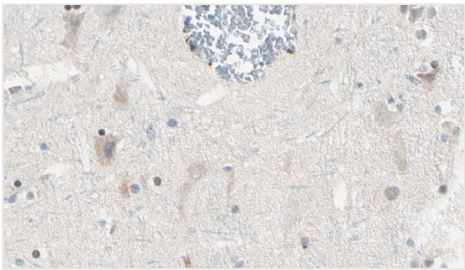
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GluR1 antibody detects endogenous levels of total GluR1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	906
Applicable Applications for anti-GluR1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GluR1
Subcellular Location	Cell Membrane. Endoplasmic Reticulum Membrane. Cell Junction > Synapse > Postsynaptic Cell Membrane. Interaction with CACNG2 promotes cell surface expression.
Tissue Specificity	Widely expressed in brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



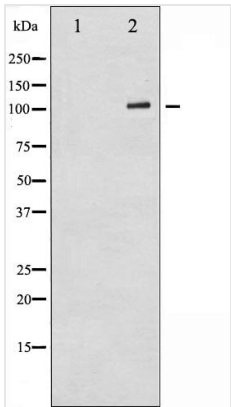
IF (Immunofluorescence)

AAA322317 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA322317 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of GluR1 expression in COS7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GluR1 antibody	Description: GluR1 an integral membrane protein belonging to the glutamate-gated ion channel family. L-glutamate (Glu) acts as an excitatory neurotransmitter at many synapses in the central nervous system. 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. Subunit Structure: Homotetramer or heterotetramer of pore-forming glutamate receptor subunits (By similarity). Tetramers may be formed by the dimerization of dimers (PubMed:23739980). Interacts with HIP1 and RASGRF2. Interacts with SYNDIG1 and GRIA2 (By similarity). Interacts with DLG1 (via C-terminus). Interacts with LRFN1. Interacts with PRKG2 (By similarity). Interacts with CNIH2 and CACNG2 (PubMed:20805473). Interacts with CACNG5. Interacts (via C-terminus) with PDLIM4 (via LIM domain); this interaction as well as the interaction of PDLIM4 with alpha-actinin is required for their colocalization in early endosomes. Found in a complex with GRIA2, GRIA3, GRIA4, CNIH2, CNIH3, CACNG2, CACNG3, CACNG4, CACNG5, CACNG7 and CACNG8 (By similarity). Interacts with SNX27 (via PDZ domain); the interaction is required for recycling to the plasma membrane when endocytosed and prevent degradation in lysosomes. Interacts (via PDZ-binding motif) with SHANK3 (via PDZ domain) (By similarity). Interacts with CACNG3; associates GRIA1 with the adaptor protein complex 4 (AP-4) to target GRIA1 to the somatodendritic compartment of neurons (By similarity). Post-translational Modifications: 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. Similarity: The M4 transmembrane segment mediates tetramerization and is required for cell surface expression. Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA1 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	167001419
NCBI GeneID	2890
NCBI Accession #	NP_000818.2
NCBI GenBank Nucleotide #	NM_000827.3
UniProt Accession #	P42261; Q2NKM6; B7Z2S0; B7Z2W8; B7Z3F6; B7Z9G9; D3DQI4; E7ESV8
Molecular Weight	Observed: 102 kDa Predicted: 102 kDa
NCBI Official Full Name	glutamate receptor 1 isoform 1
NCBI Official Synonym Full Names	glutamate ionotropic receptor AMPA type subunit 1
NCBI Official Symbol	GRIA1
NCBI Official Synonym Symbols	GLUH1; GLUR1; GLURA; GluA1; HBGR1
NCBI Protein Information	glutamate receptor 1
UniProt Protein Name	Glutamate receptor 1
UniProt Gene Name	GRIA1
UniProt Synonym Gene Names	GLUH1; GLUR1; GluR-1; GluA1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gluR1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322317>