Mouse anti-Rat, Mouse GluA1/GluR1 Glutamate Receptor Monoclonal Antibody | anti-Gria1 antibody

GluA1/GluR1 Glutamate Receptor Antibody: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103415	**Mouse**	**Rat, Mouse**	**Immunohistochemistry, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

GluA1/GluR1 Glutamate Receptor; Monoclonal Antibody; GluA1/GluR1 Glutamate Receptor Antibody: RPE; AMPA 1; AMPA selective glutamate receptor 1; Glutamate receptor 1; GluA1; GLUH 1; GluR K1; GluRK1; Glr-1; Glur-1; HIPA; Glur1; GluR-A; AI853806; 2900051M01Rik; GluRA; Glr1; MGC13325; GLUH1; GLUR1; HBGR1; GLURA; gluR-; anti-Gria1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	S355-1
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	907
Applicable Applications for anti-Gria1 antibody	IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Conjugate	RPE
Storage Buffer	PBS pH7.4, 50% glycerol, 0.1% sodium azide
Preparation and Storage	-20 degree C

IMAGES

WB (Western Blot)
Western Blot analysis of Rat Brain Membrane showing detection of ~100 kDa GluA1-GluR1 protein using Mouse Anti-GluA1-GluR1 Monoclonal Antibody, Clone S355-1 . Load: 10 ug. Block: 5% milk + TBST. Primary Antibody: Mouse Anti-GluA1-GluR1 Monoclonal Antibody at 1:2000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse HRP at 1:200 for 1 hour at RT. Predicted/Observed Size: ~100 kDa.

ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GluA1/GluR1 Glutamate Receptor Monoclonal Antibody, Clone S355-1 . Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GluA1/GluR1 Glutamate Receptor Monoclonal Antibody 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 at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane, Cell Junction. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GluA1/GluR1 Glutamate Receptor Antibody (D) Composite.

ADDITIONAL INFORMATION

Related Product Information for anti-Gria1 antibody	**Background Info:** Detects ~100kDa. Does not cross-react with GluR2. **Scientific Background:** Glutamic acid is the major excitatory neurotransmitter in the mammalian central nervous system. Glutamate receptors are classified on the basis of their activation by different agonists (1-3). GluR1, human glutamate receptor type 1, is an integral membrane protein that is widely expressed in the human brain. The postsynaptic actions of glutamic acid are mediated by a variety of receptors that are named according to their selective agonists. GluR1 is known to bind a kainate subtype of agonist. It has been found that malfunctioning of the glutamatergic system may result in certain brain disorders and neurodegeneration (3).
Product Categories/Family for anti-Gria1 antibody	Cell Signaling; Neuroscience
References	1. Potier M.C., Spillantini M.G., Carter N.P. (1992) DNA Seq. 2(4): 211-218. 2. Puckett, C., et al. (1991) Proc. Nat. Acad. Sci. USA 88(17): 7557-7561. 3. Gregor, P., et al. (1993) Proc. Nat. Acad. Sci. USA 90: 3053-3057.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29789269
NCBI GeneID	50592
NCBI Accession #	NP_113796
NCBI GenBank Nucleotide #	NM_031608.1
UniProt Accession #	P19490
Molecular Weight	101,555 Da
NCBI Official Full Name	glutamate receptor 1
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, AMPA 1
NCBI Official Symbol	Gria1
NCBI Official Synonym Symbols	GluA1; gluR-A
NCBI Protein Information	glutamate receptor 1; GluR1; gluR-1; gluR-K1; glutamate receptor A; glutamate receptor subunit GluR1; AMPA-selective glutamate receptor 1; glutamate receptor, ionotropic, AMPA1 (alpha 1)
UniProt Protein Name	Glutamate receptor 1
UniProt Gene Name	**Gria1**
UniProt Synonym Gene Names	Glur1; GluR-1; GluA1
UniProt Entry Name	GRIA1_RAT

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/monoclonal/glua1-glur1-glutamate-receptor-antibody-clone-s355-1-immunohistochemistry-immunocytochemistry-western-blot-elisa/103415