

Rabbit GluR1 Polyclonal Antibody | anti-GRIA1 antibody

Anti-GluR1 Antibody

CATALOG # AAA72778	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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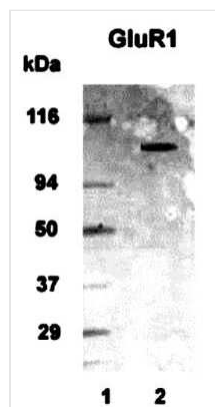
PRODUCT SYNONYMS

GluR1; Polyclonal Antibody; Anti-GluR1 Antibody; GRIA1; Glutamate receptor 1; AMPA-selective glutamate receptor 1; Glutamate receptor ionotropic; AMPA 1; GluR-K1; GluR-A; GLUH1; mGluR1; anti-GRIA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Reacts with internal residues of the human, rat and mouse GluR1 alpha protein.
Form/Format	Liquid; Antigen Affinity Purified; PBS + 0.02% NaN ₃
Applicable Applications for anti-GRIA1 antibody	WB (Western Blot)
Immunogen Species	Human
Immunogen	Synthetic peptide corresponding to amino acids from an internal region of the human GluR1 alpha protein
Country of Origin	United States
Preparation and Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage) upon arrival and stored long term at -20 degree C or -80 degree C, while keeping a working aliquot stored at 4 degree C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year. After date of receipt, stable for at least 1 year at -20 degree C.

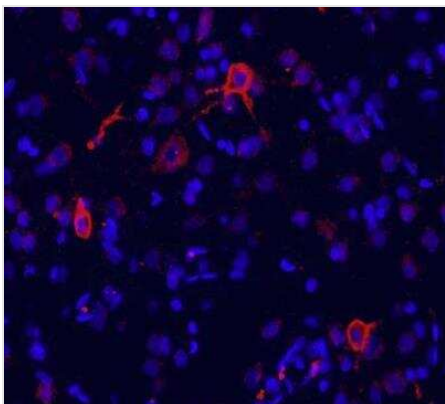
IMAGES


WB (Western Blot)

Western Blot of 20 ug of human brain lysate showing specific immunolabeling of mGluR1.

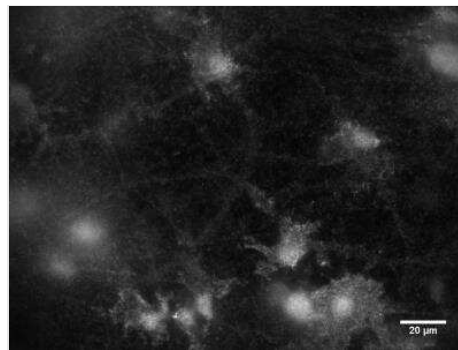

IHC (Immunohistochemistry)

Immunohistochemistry of mGluR and 5-HTR subtypes in dLGN of Galpha11-/- mice. mGluR1alpha-specific antibodies caused strong staining as in the dLGN of Galphaq/Galalpha11-/-mice. Scale bars indicate 100 um. Image from the following publication (<http://journal.frontiersin.org/article/10.3389/fncel.2010.00132/abstract>) licensed under a CC-BY license.



IHC (Immunohistochemistry)

Immunohistochemistry of rat brain frozen sections (cingulate cortex) showing specific staining of mGluR1 in red. DAPI was used to counterstain cell nuclei (blue).



ICC (Immunocytochemistry)

Immunocytochemistry of primary rat cortical neurons showing specific staining of mGluR1.

ADDITIONAL INFORMATION

Related Product Information for anti-GRIA1 antibody	mGluR1 rabbit polyclonal primary antibody from the lab is produced in-house. It detects human, mouse, and rat mGluR1 and is antigen affinity purified. It is great for use in WB. L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. The Glutamate Receptor, Metabotropic, 1, (mGluR1 alpha) activates phospholipase C and participates in the central action of glutamate in the central nervous system, such as long-term potentiation in the hippocampus and long-term depression in the cerebellum
Product Categories/Family for anti-GRIA1 antibody	Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	311033443
NCBI GeneID	2911
UniProt Accession #	Q13255; Q13256; Q14757; Q14758; Q5VTF7; Q5VTF8; Q9NU10; Q9UGS9; Q9UGT0; B9EG79; F8W805
Molecular Weight	1194
NCBI Official Full Name	Metabotropic glutamate receptor 1
NCBI Official Synonym Full Names	glutamate receptor, metabotropic 1
NCBI Official Symbol	GRM1
NCBI Official Synonym Symbols	MGLU1; GPRC1A; MGLUR1; SCAR13; PPP1R85
NCBI Protein Information	metabotropic glutamate receptor 1; protein phosphatase 1, regulatory subunit 85
UniProt Protein Name	Metabotropic glutamate receptor 1
UniProt Gene Name	GRM1
UniProt Synonym Gene Names	GPRC1A; MGLUR1; mGluR1
UniProt Entry Name	GRM1_HUMAN

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.