

ARG52337 anti-mGluR1 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes mGluR1
Tested Reactivity	Ms, Rat
Tested Application	IHC-Fr, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	mGluR1
Species	Rat
Immunogen	Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	GPRC1A; MGLU1; Metabotropic glutamate receptor 1; SCAR13; PPP1R85; MGLUR1; mGluR1

Application Instructions

Application table	Application	Dilution
	IHC-Fr	Assay-dependent
	WB	1:1000
Application Note	Specific for the ~125k monomer and the ~250k mGluR1a dimer. Immunolabeling blocked by preadsorption of antibody with the peptide used to generate the antibody. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity 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: 14816 Mouse](#)
[GeneID: 24414 Rat](#)
[Swiss-port # P23385 Rat](#)
[Swiss-port # P97772 Mouse](#)

Gene Symbol GRM1

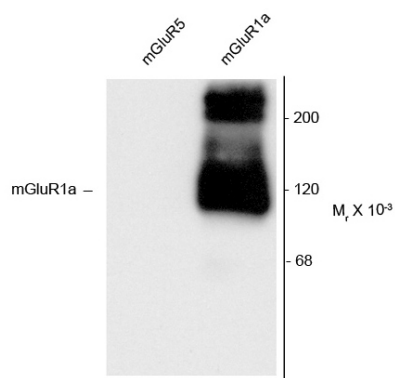
Gene Full Name glutamate receptor, metabotropic 1

Background The metabotropic glutamate receptors (mGluRs) are key receptors in the modulation of excitatory synaptic transmission in the central nervous system. They are implicated in many forms of neural plasticity as well as learning and memory and drug abuse (Bhattacharya et al., 2004; Francesconi et al., 2004; Wilson and Nicoll, 2001). Group I metabotropic glutamate receptors (consisting of mGluR1 and mGluR5) are G-protein-coupled neurotransmitter receptors that are localized in the perisynaptic region of the postsynaptic membrane. When activated, Group I mGluRs lead to stimulation of phospholipase and activation of Protein Kinase C. In contrast, activation of Group II metabotropic receptors (mGluR2 and mGluR3) leads to inhibition of adenylate cyclase. The mGluR1 receptor may also be critically involved in limiting the deleterious effects of excitotoxicity (Blaabjerg et al., 2003).

Research Area Neuroscience antibody

Calculated Mw 132 kDa

Images



ARG52337 anti-mGluR1 antibody WB image

Western blot: 10 µg of HEK 293 cells expressing mGluR1a and mGluR5 showing specific immunolabeling of the ~125k monomer and the ~250k dimer of mGluR1a stained with ARG52337 anti-mGluR1 antibody.