

## ARG52339 anti-mGluR1a + mGluR5 antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes mGluR1a + mGluR5
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms
Tested Application	IHC-Fr, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	mGluR1a + mGluR5
Species	Rat
Immunogen	Peptide from the C-terminal region of rat mGluR5 and rat mGluR1a.
Conjugation	Un-conjugated
Alternate Names	PPP1R86; mGlu5; GPRC1E; Metabotropic glutamate receptor 5; mGluR5; MGLUR5

### Application Instructions

Application table	Application	Dilution
	IHC-Fr	Assay-dependent
	WB	1:1000
Application Note	Specific for the ~125k monomer and the ~250k dimers of mGluR5 and mGluR1. Immunolabeling is blocked by preadsorption of antibody with the peptide used as antigen to generate the antibody. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

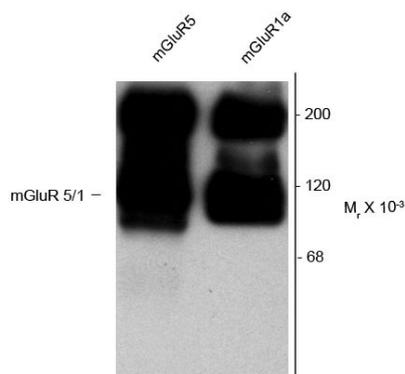
### Properties

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	<a href="#">GeneID: 24418 Rat</a> <a href="#">Swiss-port # P31424 Rat</a>
Gene Symbol	GRM5
Gene Full Name	glutamate receptor, metabotropic 5
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). In contrast, the mGluR5 receptor appears to be essential for late phase LTP in area CA1 of the hippocampus (Francesconi et al., 2004).
Research Area	Cancer antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	132 kDa

## Images



ARG52339 anti-mGluR1a + mGluR5 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 dimers of mGluR1a and mGluR5 stained with ARG52339 anti-mGluR1a + mGluR5 antibody.