

ARG22244 anti-mGluR1 + mGluR5 antibody [S75-33]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [S75-33] recognizes mGluR1 + mGluR5
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, IP, WB
Specificity	Detects ~130kDa (both mGluR1 and mGluR5).
Host	Mouse
Clonality	Monoclonal
Clone	S75-33
Isotype	IgG1
Target Name	mGluR1 + mGluR5
Species	Rat
Immunogen	Fusion protein around aa. 824-1203 (cytoplasmic C-terminus) of Rat mGluR5b
Conjugation	Un-conjugated
Alternate Names	PPP1R86; mGlu5; GPRC1E; Metabotropic glutamate receptor 5; mGluR5; MGLUR5

Application Instructions

Application table	Application	Dilution
	IHC-P	1:1000
	IP	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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.

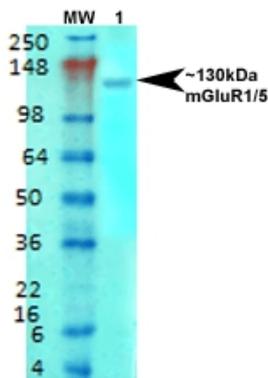
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	Grm5
Gene Full Name	glutamate receptor, metabotropic 5
Background	This gene encodes a member of the G-protein coupled receptor 3 protein family. The encoded protein is a metabotropic glutamate receptor, whose signaling activates a phosphatidylinositol-calcium second messenger system. This protein may be involved in the regulation of neural network activity and synaptic plasticity. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. A pseudogene of this gene has been defined on chromosome 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
Function	G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current. Plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity. [UniProt]
Calculated Mw	~130 kDa (both mGluR1 and mGluR5).
Cellular Localization	Cell membrane

Images



ARG22244 anti-mGluR1 + mGluR5 antibody [S75-33] WB image

Western blot: Rat brain membrane lysate stained with ARG22244 anti-mGluR1 + mGluR5 antibody [S75-33] at 1:1000 dilution.