



# mGluR2 rabbit pAb

Cat No.:ES5674

For research use only

## Overview

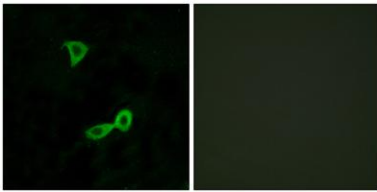
<b>Product Name</b>	mGluR2 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human GRM2. AA range:241-290
<b>Specificity</b>	mGluR2 Polyclonal Antibody detects endogenous levels of mGluR2 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Metabotropic glutamate receptor 2
<b>Gene Name</b>	GRM2
<b>Cellular localization</b>	Cell membrane; Multi-pass membrane protein. Cell junction, synapse . Cell projection, dendrite .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	
<b>Human Gene ID</b>	2912
<b>Human Swiss-Prot Number</b>	Q14416
<b>Alternative Names</b>	GRM2; GPRC1B; MGLUR2; Metabotropic glutamate receptor 2; mGluR2
<b>Background</b>	glutamate metabotropic receptor 2(GRM2) Homo sapiens 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. Group I includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. Two transcript variants encoding different isoforms have been found for this gene

Immunofluorescence analysis of LOVO cells, using GRM2 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using GRM2 Antibody. The picture on the right is blocked with the synthesized peptide.

