

**GRM2 Antibody (monoclonal) (M03)****Mouse monoclonal antibody raised against a partial recombinant GRM2.****Catalog # AT2264a****Specification**

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**GRM2 Antibody (monoclonal) (M03) - Product Information**

Application	E
Primary Accession	<a href="#">Q14416</a>
Other Accession	<a href="#">NM_000839</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	95568

**GRM2 Antibody (monoclonal) (M03) - Additional Information****Gene ID** 2912**Other Names**

Metabotropic glutamate receptor 2, mGluR2, GRM2, GPRC1B, MGLUR2

**Target/Specificity**

GRM2 (NP\_000830, 414 a.a. ~ 506 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

GRM2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

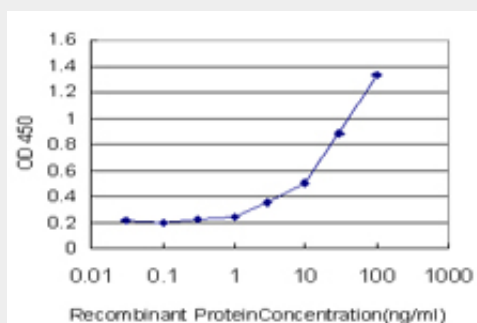
**GRM2 Antibody (monoclonal) (M03) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

## GRM2 Antibody (monoclonal) (M03) - Images



Detection limit for recombinant GST tagged GRM2 is approximately 0.3ng/ml as a capture antibody.

## GRM2 Antibody (monoclonal) (M03) - Background

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.

## GRM2 Antibody (monoclonal) (M03) - References

Association analysis of GRM2 and HTR2A with methamphetamine-induced psychosis and schizophrenia in the Japanese population. Tsunoka T, et al. Prog Neuropsychopharmacol Biol Psychiatry, 2010 May 30. PMID 20211215. Elevated level of metabotropic glutamate receptor 2/3 in the prefrontal cortex in major depression. Feyissa AM, et al. Prog Neuropsychopharmacol Biol Psychiatry, 2010 Mar 17. PMID 19945495. Disruption of glutamate receptors at Shank-postsynaptic platform in Alzheimer's disease. Gong Y, et al. Brain Res, 2009 Oct 6. PMID 19635471. Mutagenesis and molecular modeling of the orthosteric binding site of the mGlu2 receptor determining interactions of the group II receptor antagonist (3)H-HYDIA. Lundström L, et al. ChemMedChem, 2009 Jul. PMID 19402024. Association analysis of group II metabotropic glutamate receptor genes (GRM2 and GRM3) with mood disorders and fluvoxamine response in a Japanese population. Tsunoka T, et al. Prog Neuropsychopharmacol Biol Psychiatry, 2009 Aug 1. PMID 19386277.