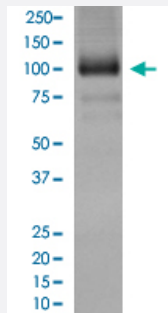


# GRM1 monoclonal antibody, clone IGI-7

Catalog # MAB20488      Size 100 uL

## Applications



### Western Blot (Tissue lysate)

Western Blot analysis of mouse brain tissue lysate with GRM1 monoclonal antibody, clone IGI-7 (Cat # MAB20488).

## Specification

<b>Product Description</b>	Rabbit monoclonal antibody raised against synthetic peptide of human GRM1.
<b>Immunogen</b>	A synthetic peptide corresponding to human GRM1.
<b>Host</b>	Rabbit
<b>Theoretical MW (kDa)</b>	132.357
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Affinity purification
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
<b>Storage Instruction</b>	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

## Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Tissue lysate)

Western Blot analysis of mouse brain tissue lysate with GRM1 monoclonal antibody, clone IGI-7 (Cat # MAB20488).

## Gene Info — GRM1

Entrez GeneID [2911](#)

Protein Accession# [Q13255](#)

Gene Name GRM1

Gene Alias GPRC1A, GRM1A, MGLUR1, MGLUR1A, mGlu1

Gene Description glutamate receptor, metabotropic 1

Omim ID [604473](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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. The canonical alpha isoform of the metabotropic glutamate receptor 1 gene is a disulfide-linked homodimer whose activity is mediated by a G-protein-coupled phosphatidylinositol-calcium second messenger system. Alternative splicing results in multiple transcript variants encoding distinct isoforms; some of which may have distinct functions. [provided by RefSeq]

Other Designations OTTHUMP00000017365

## Pathway

- [Calcium signaling pathway](#)

- [Gap junction](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [Neuroactive ligand-receptor interaction](#)

## Disease

- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)