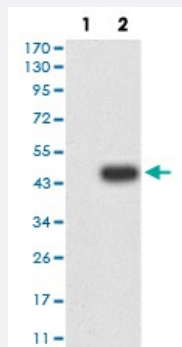


# GRM2 monoclonal antibody, clone 4A10B9

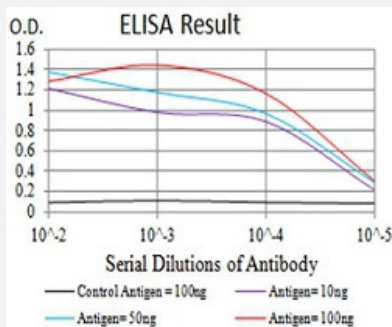
Catalog # MAB17597      Size 100 ug

## Applications



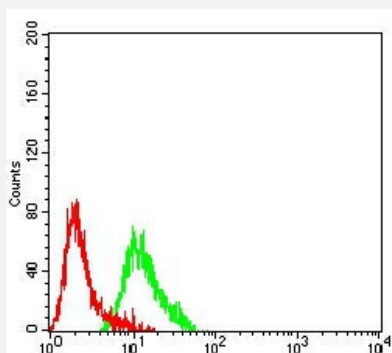
### Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) GRM2-hlgGfc transfected HEK293 cell lysate.



### Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GRM2 monoclonal antibody, clone 4A10B9.



### Flow Cytometry

Flow cytometric analysis of SK-N-SH cells with GRM2 monoclonal antibody (green) and negative control (red).

## Specification

### Product Description

Mouse monoclonal antibody raised against recombinant human GRM2.

|                      |   |
|----------------------|---|
| Immunogen            | Recombinant protein corresponding to amino acid 414-558 of human GRM2 from <i>E. coli</i> .   |
| Host                 | Mouse   |
| Theoretical MW (kDa) | 95.6  |
| Reactivity           | Human   |
| Form                 | Liquid  |
| Isotype              | IgG1  |
| Recommend Usage      | ELISA (1:10000)<br>Western Blot (1:500-1:2000)<br>Immunocytochemistry<br>Flow Cytometry (1:200-1:400)<br>Immunohistochemistry<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer       | In PBS (0.05% sodium azide).  |
| Storage Instruction  | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to 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 (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) GRM2-hlgGFc transfected HEK293 cell lysate.

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GRM2 monoclonal antibody, clone 4A10B9.

- Flow Cytometry

Flow cytometric analysis of SK-N-SH cells with GRM2 monoclonal antibody (green) and negative control (red).

## Gene Info — GRM2

|               |                              |
|---------------|------------------------------|
| Entrez GeneID | <a href="#">2912</a>         |
| Gene Name     | GRM2                         |
| Gene Alias    | GLUR2, GPRC1B, MGLUR2, mGlu2 |

|                    |  |
|--------------------|--|
| Gene Description   | glutamate receptor, metabotropic 2   |
| Omim ID            | <a href="#">604099</a>   |
| Gene Ontology      | <a href="#">Hyperlink</a>  |
| 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq] |
| Other Designations | glutamate metabotropic receptor 2 glutamate receptor homolog   |

## Pathway

- [Neuroactive ligand-receptor interaction](#)

## Disease

- [Amphetamine-Related Disorders](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Mood Disorders](#)
- [Psychoses](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Weight Gain](#)