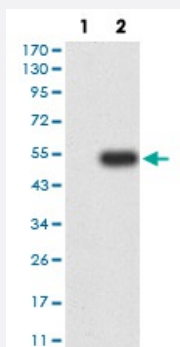


# GRM3 monoclonal antibody, clone 7A5A6

Catalog # MAB17543

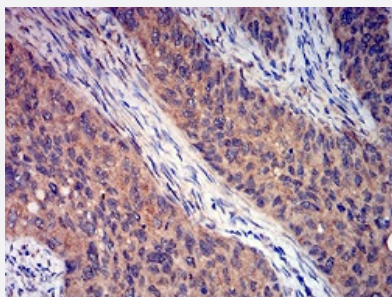
Size 100 ug

## Applications



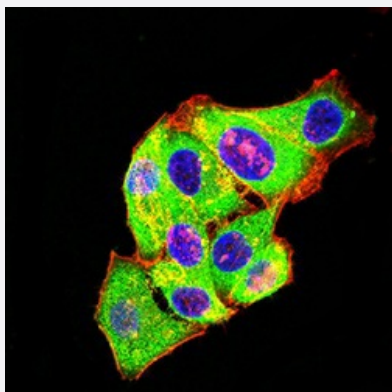
### Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) GRM3-hlgGfC transfected HEK293 cell lysate.



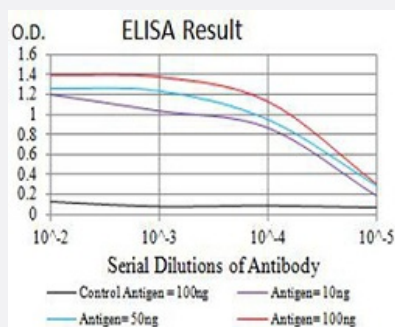
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded cervical cancer tissue with GRM3 monoclonal antibody.



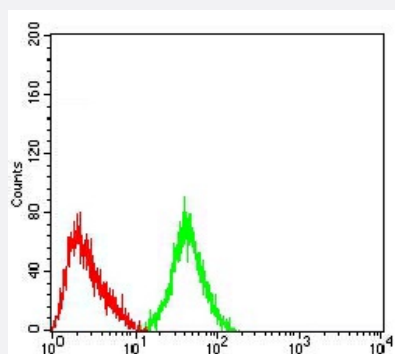
### Immunocytochemistry

Immunocytochemical staining of HeLa cells with GRM3 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).



## Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GRM3 monoclonal antibody, clone 7A5A6.



## Flow Cytometry

Flow cytometric analysis of SH-SY5Y cells with GRM3 monoclonal antibody (green) and negative control (red).

## Specification

|                             |                                                                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Mouse monoclonal antibody raised against recombinant human GRM3.                                                                                                                                                                  |
| <b>Immunogen</b>            | Recombinant protein corresponding to amino acid 433-576 of human GRM3 from <i>E. coli</i> .                                                                                                                                       |
| <b>Host</b>                 | Mouse                                                                                                                                                                                                                             |
| <b>Theoretical MW (kDa)</b> | 99                                                                                                                                                                                                                                |
| <b>Reactivity</b>           | Human                                                                                                                                                                                                                             |
| <b>Form</b>                 | Liquid                                                                                                                                                                                                                            |
| <b>Isotype</b>              | IgG2a                                                                                                                                                                                                                             |
| <b>Recommend Usage</b>      | ELISA (1:10000)<br>Western Blot (1:500-1:2000)<br>Immunocytochemistry (1:200-1:1000)<br>Flow Cytometry (1:200-1:400)<br>Immunohistochemistry (1:200-1:1000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>       | In PBS (0.05% sodium azide).                                                                                                                                                                                                      |
| <b>Storage Instruction</b>  | 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) GRM3-hlgGfc transfected HEK293 cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded cervical cancer tissue with GRM3 monoclonal antibody.

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with GRM3 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GRM3 monoclonal antibody, clone 7A5A6.

- Flow Cytometry

Flow cytometric analysis of SH-SY5Y cells with GRM3 monoclonal antibody (green) and negative control (red).

## Gene Info — GRM3

|               |                      |
|---------------|----------------------|
| Entrez GeneID | <a href="#">2913</a> |
|---------------|----------------------|

|           |      |
|-----------|------|
| Gene Name | GRM3 |
|-----------|------|

|            |                              |
|------------|------------------------------|
| Gene Alias | GLUR3, GPRC1C, MGLUR3, mGlu3 |
|------------|------------------------------|

|                  |                                    |
|------------------|------------------------------------|
| Gene Description | glutamate receptor, metabotropic 3 |
|------------------|------------------------------------|

|         |                        |
|---------|------------------------|
| Omim ID | <a href="#">601115</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. [provided by RefSeq]

**Other Designations**

glutamate metabotropic receptor 3

**Pathway**

- [Neuroactive ligand-receptor interaction](#)

**Disease**

- [Anoxia](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Decision Making](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Functional Laterality](#)
- [Genetic Predisposition to Disease](#)
- [Memory](#)
- [Mental Disorders](#)
- [Mood Disorders](#)
- [Neuropsychological Tests](#)
- [Obstetric Labor Complications](#)
- [Problem Solving](#)

- [Psychiatric Status Rating Scales](#)
- [Psychoses](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Set \(Psychology\)](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)