

**GRM2**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2668a**

**Specification**

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**GRM2 - Product Information**

Application	<b>E, WB</b>
Primary Accession	<a href="#">Q14416</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG1</b>
Calculated MW	<b>95.6kDa KDa</b>

**Immunogen**

Purified recombinant fragment of human GRM2 (AA: extra 414-558) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**GRM2 - Additional Information**

**Gene ID** 2912

**Other Names**

GLUR2; mGlu2; GPRC1B; MGLUR2

**Dilution**

E~~ 1/10000

WB~~ 1/500 - 1/2000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GRM2 is for research use only and not for use in diagnostic or therapeutic procedures.

**GRM2 - Protein Information**

**Name** GRM2 ([HGNC:4594](#))

**Synonyms** GPRC1B, MGLUR2

**Function**

G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity.

May mediate suppression of neurotransmission or may be involved in synaptogenesis or synaptic stabilization.

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Synapse. Cell projection, dendrite

#### Tissue Location

Detected in brain cortex (at protein level). Widely expressed in different regions of the adult brain as well as in fetal brain.

### GRM2 - 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 - Images

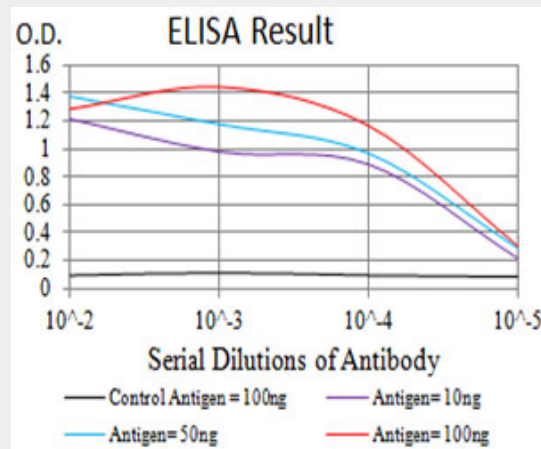


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

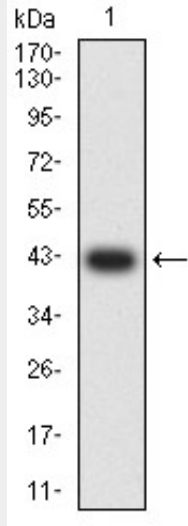


Figure 2:Western blot analysis using GRM2 mAb against human GRM2 (AA: extra 414-558) recombinant protein. (Expected MW is 42.4 kDa)

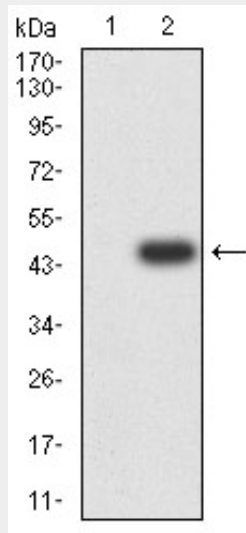


Figure 3:Western blot analysis using GRM2 mAb against HEK293 (1) and GRM2 (AA: extra 414-558)-hlgGfC transfected HEK293 (2) cell lysate.

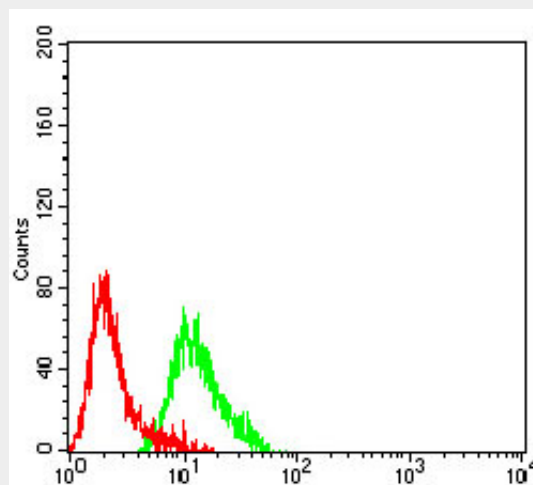


Figure 4:Flow cytometric analysis of SK-N-SH cells using GRM2 mouse mAb (green) and negative

control (red).

### **GRM2 - References**

1.Br J Pharmacol. 2015 May;172(9):2383-96.2.Brain Res. 2009 Jan 16;1249:244-50.