

## Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody

**Catalog # ABO13859** 

## **Specification**

## Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody - Product Information

Application WB, IHC, IF, ICC

Primary Accession

Host
Rabbit
Isotype
Rabbit IgG

Reactivity Rat, Human, Mouse

Clonality Monoclonal Format Liquid

**Description** 

Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

# Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody - Additional Information

#### **Gene ID 2912**

#### **Other Names**

Metabotropic glutamate receptor 2, mGluR2, GRM2 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=4594" target=" blank">HGNC:4594</a>), GPRC1B, MGLUR2

# Calculated MW

95568 MW KDa

### **Application Details**

WB 1:5000-1:10000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200

## **Subcellular Localization**

Cell membrane; Multi-pass membrane protein. Cell junction, synapse. Cell projection, dendrite.

## **Tissue Specificity**

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

## **Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### **Immunogen**

A synthesized peptide derived from human mGluR2

#### **Purification**

Affinity-chromatography

Storage Store at -20°C for one year. For short term



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storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

## Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody - Protein Information

Name GRM2 (HGNC:4594)

Synonyms GPRC1B, MGLUR2

#### **Function**

Dimeric G protein-coupled receptor which is activated by the excitatory neurotransmitter L-glutamate (PubMed: <a href="http://www.uniprot.org/citations/37286794" target=" blank">37286794</a>). Plays critical roles in modulating synaptic transmission and neuronal excitability. Upon activation by glutamate, inhibits presynaptic calcium channels, reducing further glutamate release and dampening excitatory signaling (By similarity). Mechanistically, 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. 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.

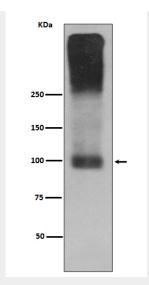
# Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody - Protocols

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

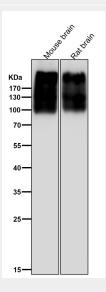
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody - Images





Western blot analysis of mGluR2 expression in Mouse brain lysate.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.