

**Anti-mGLUR2 Antibody**  
**Catalog # AP53676****Specification**

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**Anti-mGLUR2 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q14416</a>
Other Accession	<a href="#">Q14832</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>95568</b>

**Anti-mGLUR2 Antibody - Additional Information****Gene ID** 2912**Other Names**

GRM2; GPRC1B; MGLUR2; Metabotropic glutamate receptor 2; mGluR2; GRM3; GPRC1C; MGLUR3; Metabotropic glutamate receptor 3; mGluR3

**Target/Specificity**

Recognizes endogenous levels of mGLUR2 protein.

**Dilution**

WB~~1/500 - 1/1000

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-mGLUR2 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

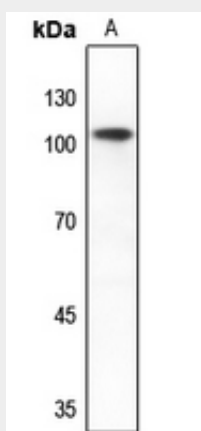
**Tissue Location**

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

**Anti-mGLUR2 Antibody - 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](#)

**Anti-mGLUR2 Antibody - Images**

Western blot analysis of mGLUR2 expression in rat brain (A) whole cell lysates.

**Anti-mGLUR2 Antibody - Background**

Rabbit polyclonal antibody to mGLUR2