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Anti-mGLUR2 Antibody
Catalog # AP53676

Specification

Anti-mGLUR2 Antibody - Product Information

Application	**WB**
Primary Accession	Q14416
Other Accession	Q14832
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**95568**

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
KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human mGLUR2. The exact sequence is proprietary.

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:37286794). 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

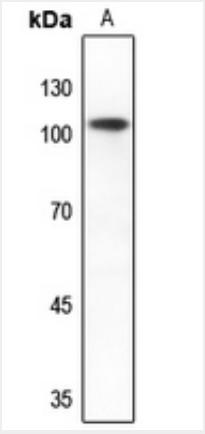
Tissue Location
Detected in brain cortex (at protein level). Widely expressed in different regions of the adult brain as well as in fetal brain.

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 Cytomety
- 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