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mGluR2 Antibody
Rabbit mAb
Catalog # AP90996

Specification

mGluR2 Antibody - Product Information

Application	**WB, IHC, ICC**
Primary Accession	Q14416
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
GRM2; Glutamate receptor homolog; GPRC1B; MGlu2; Metabotropic; GLUR2; MGLUR2;

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**95568 Da**

mGluR2 Antibody - Additional Information

Dilution	**WB~~1:1000** **IHC~~1:100~500** **ICC~~N/A**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human mGluR2**
Description	**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.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

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

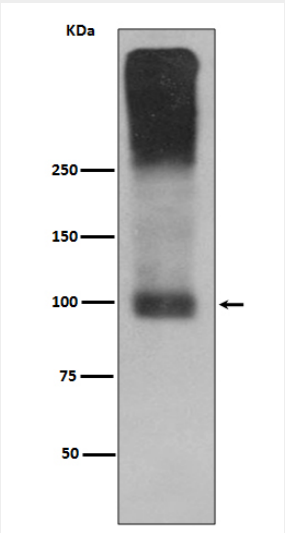
Tissue Location
Detected in brain cortex (at protein level). Widely expressed in different regions of the adult brain as well as in fetal brain.

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

mGluR2 Antibody - Images



Western blot analysis of mGluR2 expression in Mouse brain lysate.