

Metabotropic Glutamate Receptor 2 Rabbit mAb

Catalog # AP75713

Specification

Metabotropic Glutamate Receptor 2 Rabbit mAb - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB, IHC-P <u>014416</u> Human, Mouse Rabbit Monoclonal Antibody 95568

Metabotropic Glutamate Receptor 2 Rabbit mAb - Additional Information

Gene ID 2912

Other Names GRM2

Dilution WB~~1/500-1/1000 IHC-P~~N/A

Format Liquid

Metabotropic Glutamate Receptor 2 Rabbit mAb - 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.

Metabotropic Glutamate Receptor 2 Rabbit mAb - Protocols

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

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

Metabotropic Glutamate Receptor 2 Rabbit mAb - Images



