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# mGluR2 Antibody

Rabbit mAb
Catalog # AP90996

## Product Information

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| **Application** | WB, IHC, IF, ICC, IHF |
| **Primary Accession** | Q14416 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | GRM2; Glutamate receptor homolog; GPRC1B; MGlu2; Metabotropic; GLUR2; MGLUR2; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 95568 |

## Additional Information

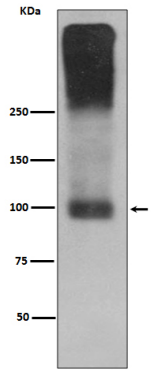
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| **Dilution** | WB 1:5000~1:10000 IHC 1:50~1:200 ICC/IF 1:50~1:200 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human mGluR2 |
| **Description** | G-protein coupled receptor for glutamate. Ligand 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. |

## Protein Information

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| **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. |

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| **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. |

## Images




Western blot analysis of mGluR2 expression in Mouse brain lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.