10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# mGLUR7 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51248

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q14831 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 102251 |

## Additional Information

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| **Gene ID** | 2917 |
| **Other Names** | Metabotropic glutamate receptor 7, mGluR7, GRM7, GPRC1G, MGLUR7 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human mGLUR7. The exact sequence is proprietary. |
| **Dilution** | WB~~1:1000 |
| **Format** | 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50% |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | GRM7 |
| **Synonyms** | GPRC1G, MGLUR7 |
| **Function** | G-protein coupled receptor activated by glutamate that regulates axon outgrowth through the MAPK-cAMP-PKA signaling pathway during neuronal development (PubMed:33500274). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide- binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase that it inhibits (PubMed:9473604). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein |
| **Tissue Location** | Expressed in many areas of the brain, especially in the cerebral cortex, hippocampus, and cerebellum. Expression of GRM7 isoforms in non-neuronal tissues appears to be restricted to isoform 3 and isoform 4. |

## Background

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.

## References

Makoff A.,et al.Brain Res. Mol. Brain Res. 40:165-170(1996).
Flor P.J.,et al.Neuropharmacology 36:153-159(1997).
Wu S.,et al.Brain Res. Mol. Brain Res. 53:88-97(1998).
Schulz H.L.,et al.Neurosci. Lett. 326:37-40(2002).
Bolonna A.A.,et al.Schizophr. Res. 47:99-103(2001).