10320 Camino Santa Fe, Suite G
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GRM7 / MGLUR7 Antibody (Extracellular Domain)

Rabbit Polyclonal Antibody
Catalog # ALS10571

Specification

GRM7 / MGLUR7 Antibody (Extracellular Domain) - Product Information

Application	**IHC**
Primary Accession	Q14831
Reactivity	**Human, Mouse, Rabbit, Monkey, Pig, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**102kDa KDa**

GRM7 / MGLUR7 Antibody (Extracellular Domain) - Additional Information

Gene ID 2917

Other Names
Metabotropic glutamate receptor 7, mGluR7, GRM7, GPRC1G, MGLUR7

Target/Specificity
Human GRM7 / MGLUR7. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except GRM8 (67%).

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
GRM7 / MGLUR7 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

GRM7 / MGLUR7 Antibody (Extracellular Domain) - Protein Information

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

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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.

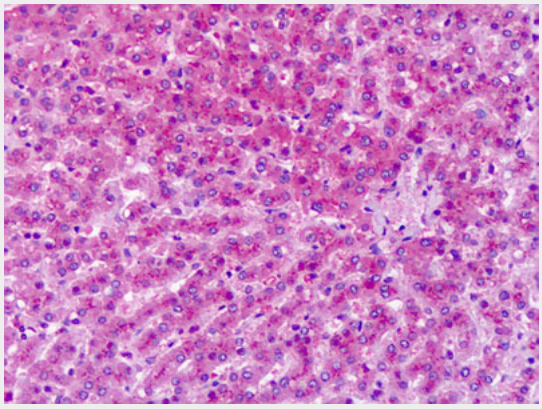
Volume
50 µl

GRM7 / MGLUR7 Antibody (Extracellular Domain) - 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

GRM7 / MGLUR7 Antibody (Extracellular Domain) - Images



Anti-GRM7 / MGLUR7 antibody IHC of human liver.

GRM7 / MGLUR7 Antibody (Extracellular Domain) - 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.

GRM7 / MGLUR7 Antibody (Extracellular Domain) - 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).