

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

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.

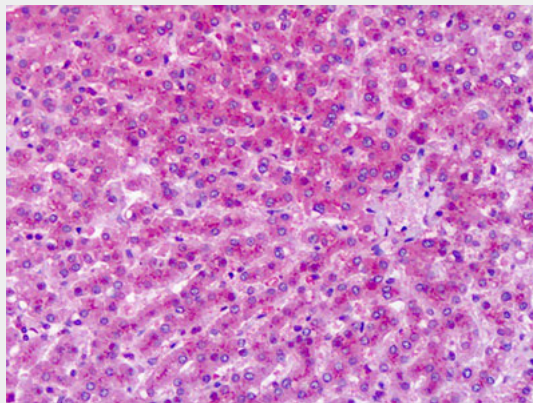
Volume

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 Cytometry](#)
- [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).