

mGluR-7 Polyclonal Antibody

Catalog # AP70930

Product Information

Application WB, IHC-P, IF Primary Accession 014831

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW102251

Additional Information

Gene ID 2917

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

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other

applications. IHC-P~~N/A IF~~1:50~200

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

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,

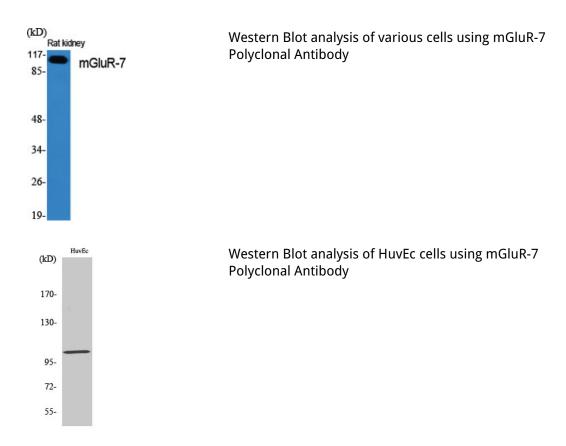
hippocampus, and cerebellum. Expression of GRM7 isoforms in non-neuronal

tissues appears to be restricted to isoform 3 and isoform 4.

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.

Images



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