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Anti-mGLUR6 Antibody

Catalog # AP59571

Product Information

Application	WB, IF/IC
Primary Accession	O15303
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95468

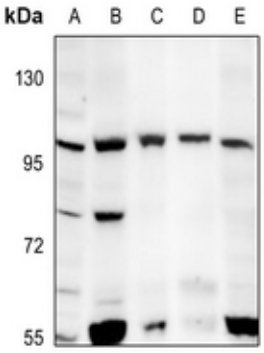
Additional Information

Gene ID	2916
Other Names	GPRC1F; MGLUR6; Metabotropic glutamate receptor 6; mGluR6
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human mGLUR6. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

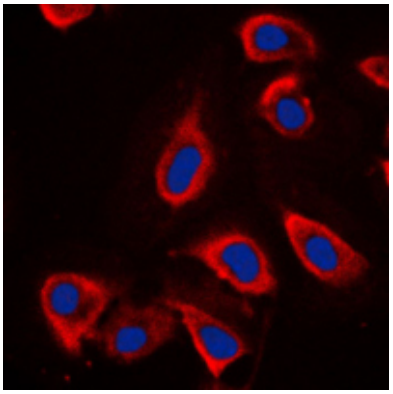
Protein Information

Name	GRM6
Synonyms	GPRC1F, MGLUR6
Function	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 (By similarity). Signaling stimulates TRPM1 channel activity and Ca(2+) uptake. Required for normal vision.
Cellular Location	Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cell projection, dendrite Note=Subject to trafficking from the endoplasmic reticulum to the Golgi apparatus and then to the cell membrane
Tissue Location	Detected in melanocytes.

Images



Western blot analysis of mGLUR6 expression in C6 (A), SP20 (B), SHSY5Y (C), U87MG (D), A375 (E) whole cell lysates. (Predicted band size: 95 kD; Observed band size: 110 kD)



Immunofluorescent analysis of mGLUR6 staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Citations

- Upregulated TRPM1 is associated with apoptosis in Rs1 knockout mice and in ARPE19 cells through increased intracellular calcium.

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