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Anti-mGLUR4 Antibody

Catalog # AP51247

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q14833
Reactivity	Human, Mouse, Rat, Chicken, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101868

Additional Information

Gene ID	2914
Other Names	GPRC1D; MGLUR4; Metabotropic glutamate receptor 4; mGluR4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human mGLUR4. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 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

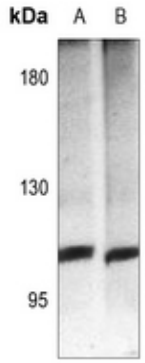
Protein Information

Name	GRM4
Synonyms	GPRC1D, MGLUR4
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. Signaling inhibits adenylate cyclase activity.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Strongly expressed in the cerebellum. Expressed at low levels in hippocampus, hypothalamus and thalamus. No expression detected in liver.

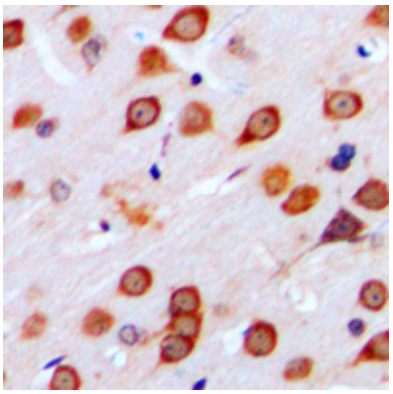
References

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Flor P.J.,et al.Neuropharmacology 34:149-155(1995).
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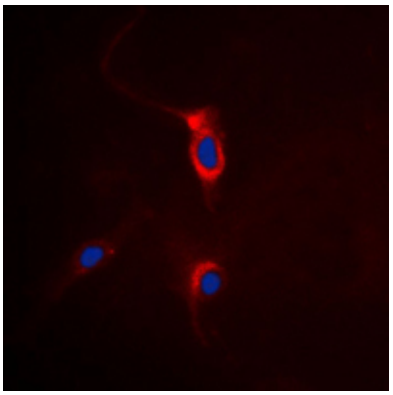
Images



Western blot analysis of mGLUR4 expression in mouse brain (A), rat brain (B) whole cell lysates. (Predicted band size: 101 kD; Observed band size: 110 kD)



Immunohistochemical analysis of mGLUR4 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of mGLUR4 staining in HeLa 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).

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