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Anti-GPR110 Antibody

Catalog # AP51235

Product Information

Application	WB, IF/IC
Primary Accession	Q5T601
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101365

Additional Information

Gene ID	266977
Other Names	PGR19; Probable G-protein coupled receptor 110; G-protein coupled receptor KPG_012; G-protein coupled receptor PGR19
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GPR110. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 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

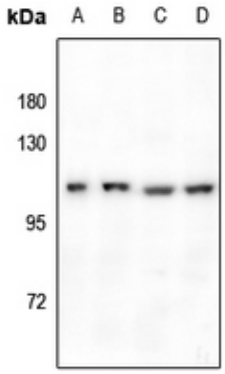
Name	ADGRF1 {ECO:0000303|PubMed:35418679, ECO:0000312|HGNC:HGNC:18990}
Function	Adhesion G protein-coupled receptor (aGPCR) for N-docosahexaenoylethanolamine (synaptamide), an omega-3 fatty acid lipid highly enriched in the brain (PubMed:27759003, PubMed:32144388). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:35418679, PubMed:36127364, PubMed:37120430). ADGRF1 is coupled to G(s) G proteins and mediates activation of adenylate cyclase activity (PubMed:35418679). Also able to couple to G(q), G(i) and G(12)/G(13) G proteins; additional evidence is however required to confirm this result in vivo (PubMed:36127364, PubMed:37120430). Involved in the development of neurons and cognitive function (By similarity). In liver, involved in fat accumulation (By similarity).

Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Mainly expressed in the kidney. Up-regulated in lung adenocarcinomas and prostate cancers

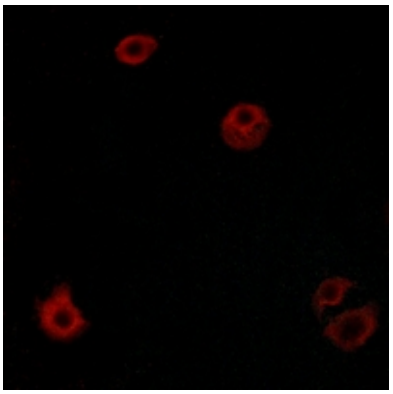
References

Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Okazaki H.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of GPR110 expression in HEK293T (A), PC12 (B), CT26 (C), Hela (D) whole cell lysates. (Predicted band size: 101 kD; Observed band size: 101 kD)



Immunofluorescent analysis of GPR110 staining in A549 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 hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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