10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-GPR12 Antibody

Catalog # AP51955

Product Information

Application	WB, IF/IC
Primary Accession	P47775
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36730

Additional Information

Gene ID	2835
Other Names	G-protein coupled receptor 12
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GPR12. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 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

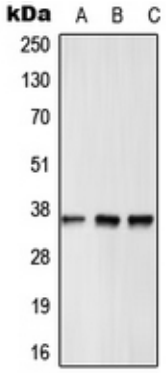
Protein Information

Name	GPR12
Function	Brain-specific G protein-coupled receptor involved in regulating diverse physiological processes including neurite outgrowth, meiotic arrest, and lipid and carbohydrate metabolism (By similarity). Functions as a receptor with constitutive G(s)-mediated signaling activity that stimulates cyclic AMP (cAMP) production (PubMed:36593162). Also engages the G(i)/G(o) pathway, which counteracts the cAMP increase driven by G(s) activation (PubMed:12220620). Additionally, two lipids sphingosylphosphorylcholine (SPC) and sphingosine-1-phosphate (S1P) may act as endogenous ligand and activate GPR12 (PubMed:12220620).
Cellular Location	Cell membrane; Multi-pass membrane protein

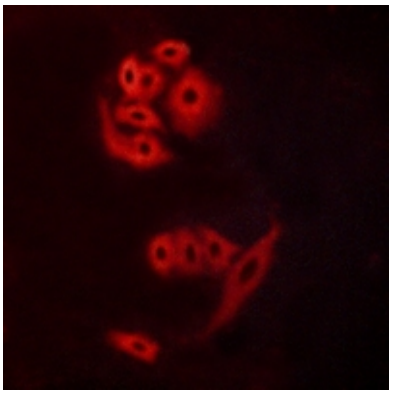
References

Song Z.-H.,et al.Genomics 28:347-349(1995).
Dunham A.,et al.Nature 428:522-528(2004).
Uhlenbrock K.,et al.Cell. Signal. 14:941-953(2002).
Yin H.,et al.J. Biol. Chem. 284:12328-12338(2009).

Images



Western blot analysis of GPR12 expression in HepG2 (A), Raw264.7 (B), rat heart (C) whole cell lysates. (Predicted band size: 36 kD; Observed band size: 37 kD)



Immunofluorescent analysis of GPR12 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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