DATASHEET

GPR12 Rabbit Polyclonal Antibody

CAT. NO. APA07035

KEY FEATURES

Target	GPR12	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

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

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to GPR12
Specificity	Recognizes endogenous levels of GPR12 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GPR12. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 36 kD; Observed: 37 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	G-protein coupled receptor 12
Gene Symbol	GPR12
Entrez Gene	2835(Human); 14738(Mouse); 80840(Rat)
SwissProt	P47775(Human); P35412(Mouse); P30951(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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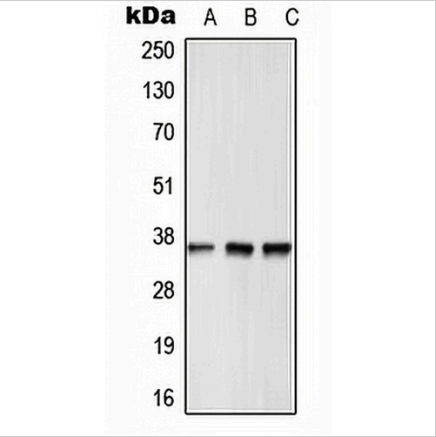
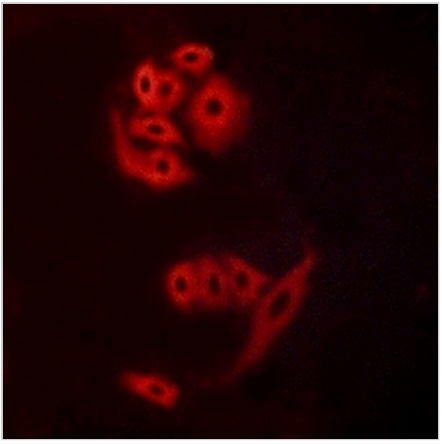
DATA



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 AREX® Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.