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Anti-GPR182 Antibody

Catalog # AP53768

Product Information

Application	WB, IF/IC
Primary Accession	O15218
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45323

Additional Information

Gene ID	11318
Other Names	ADMR; G-protein coupled receptor 182
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR182. The exact sequence is proprietary.
Dilution	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	ACKR5 (HGNC:13708)
Function	Atypical chemokine receptor that regulates chemokine levels and localization through chemokine binding, independently of activating classical ligand-induced signaling pathways such as G protein activation and Ca(2+) mobilization (PubMed:33875597, PubMed:35013216, PubMed:37554323, PubMed:38026988). Instead, it mediates chemokine sequestration, transport, or internalization to control their availability (PubMed:33875597, PubMed:35013216, PubMed:37554323, PubMed:38026988). Acts as a scavenger for a broad range of chemokines from CXC, CC and XC chemokine ligand families including CXCL9, CXCL10, CXCL12, CXCL13, CXCL11, CXCL14, CCL1, CCL11, CCL19, CCL25, CCL28 and XCL1 (PubMed:33875597, PubMed:35013216, PubMed:38026988). Is the only atypical receptor for chemokines CXCL13 and CCL28 (PubMed:37554323). Has a strong constitutive association with beta-arrestins, which is essential for intracellular receptor trafficking and chemokine scavenging, and occurs independently of ligand binding (PubMed:33875597, PubMed:37554323). Cooperates with ACKR3 and ACKR4 in regulating serum levels of CXCL12 and CCL19, respectively

(PubMed:37554323). Acts as an important modulator of cellular immunity (By similarity).

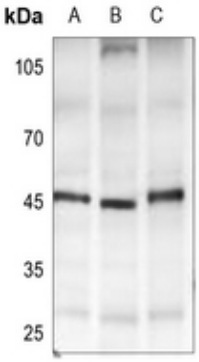
Cellular Location

Cell membrane; Multi-pass membrane protein. Endosome membrane; Multi-pass membrane protein. Note=Spontaneously traffic between the plasma membrane and endosomes, in a beta-arrestin-dependent manner

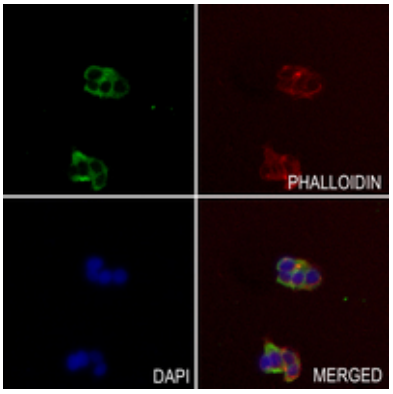
Tissue Location

Highly expressed in heart, skeletal muscle, immune system, adrenal gland and liver.

Images



Western blot analysis of GPR182 expression in AML12 (A), PC12 (B), Raw264.7 (C) whole cell lysates. (Predicted band size: 45 kD; Observed band size: 45 kD)



Immunofluorescent analysis of GPR182 staining in HEPG2 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 AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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