

GPR109A/HM74A/HCAR2 Rabbit pAb

Catalog No.: A15611

Basic Information

Observed MW

44kDa

Calculated MW

42kDa

Category

Primary antibody

Applications

WB, IHC, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

Background

Acts as a high affinity receptor for both nicotinic acid (also known as niacin and (D)-beta-hydroxybutyrate and mediates increased adiponectin secretion and decreased lipolysis through G(i)-protein-mediated inhibition of adenylyl cyclase. This pharmacological effect requires nicotinic acid doses that are much higher than those provided by a normal diet. Mediates nicotinic acid-induced apoptosis in mature neutrophils. Receptor activation by nicotinic acid results in reduced cAMP levels which may affect activity of cAMP-dependent protein kinase A and phosphorylation of target proteins, leading to neutrophil apoptosis. The rank order of potency for the displacement of nicotinic acid binding is 5-methyl pyrazole-3-carboxylic acid = pyridine-3-acetic acid > acifran > 5-methyl nicotinic acid = acipimox >> nicotinuric acid = nicotinamide.

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

338442

Swiss Prot

Q8TDS4

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 100-200 of human GPR109A/HM74A/HCAR2 (NP_808219.1).

Synonyms

HCAR2; GPR109A; HCA2; HM74a; HM74b; NIACR1; PUMAG; Puma-g

Contact

 | www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

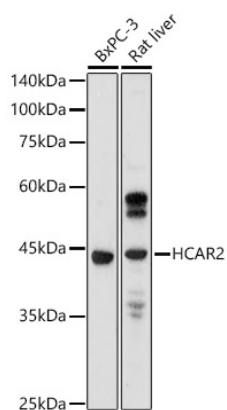
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using GPR109A/HM74A/HCAR2 antibody (A15611) at 1:1000 dilution.

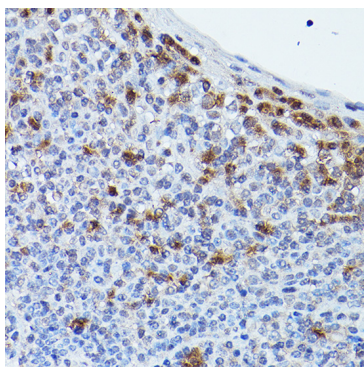
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (A5014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 180s.



Immunohistochemistry of paraffin-embedded human tonsil using GPR109A/HM74A/HCAR2 Rabbit pAb (A15611) at dilution of 1:25 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.