

Datasheet for ABIN7267804  
**anti-HCAR2 antibody (AA 250-350)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	100 µL
Target:	HCAR2
Binding Specificity:	AA 250-350
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HCAR2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Purpose:	HCAR2 Rabbit pAb
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 250-350 of human HCAR2 (NP_808219.1).
Sequence:	VRIRIFWLLH TSGTQNCVY RSVDLAFFIT LSFTYMNSML DPVVYYFSSP SFPNFFSTLI NRCLQRKMTG EPDNNRSTSV ELTGDPNKTR GAPEALMANS G
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

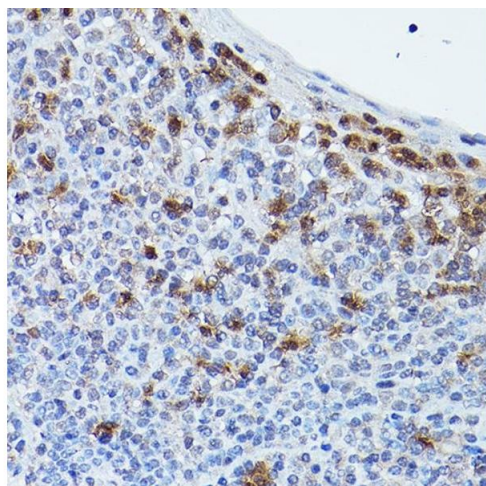
Target:	HCAR2
Alternative Name:	HCAR2 ( <a href="#">HCAR2 Products</a> )
Background:	Acts as a high affinity receptor for both nicotinic acid (also known as niacin and (D-beta-hydroxybutyrate and mediates increased adiponectin secretion and decreased lipolysis through G(i)-protein-mediated inhibition 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.,HCAR2,GPR109A,HCA2,HM74a,HM74b,NIACR1,PUMAG,Puma-g,Cancer,Tumor suppressors,p53 pathway,Signal Transduction,G protein signaling,G-Protein-Coupled Receptors(GPCR),Cell Biology & Developmental Biology,Apoptosis,Endocrine & Metabolism,Lipid Metabolism,Hydrolysis,Cardiovascular,Lipids,HCAR2
Molecular Weight:	42kDa
Gene ID:	338442
UniProt:	<a href="#">Q8TDS4</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

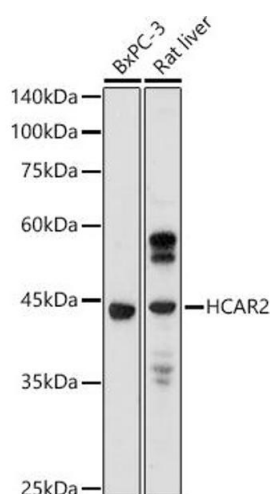
## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human tonsil using GPR109A/HM74A/HC Rabbit pAb (ABIN7267804) 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.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using GPR109A/HM74A/HC antibody (ABIN7267804) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.