

Rabbit NIACR1 Polyclonal Antibody | anti-HCAR2 antibody

NIACR1 Antibody (Center)

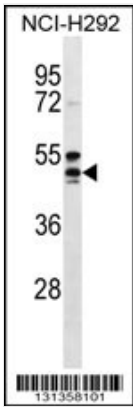
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289905	Rabbit	Human (Predicted Reactivity: Mouse)	ELISA, Western Blot

PRODUCT SYNONYMS

NIACR1; Polyclonal Antibody; NIACR1 Antibody (Center); Hydroxycarboxylic acid receptor 2; G-protein coupled receptor 109A; G-protein coupled receptor HM74A; Niacin receptor 1; Nicotinic acid receptor; HCAR2; GPR109A; HCA2; HM74A; anti-HCAR2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	200-228
Sequence Length	363
Applicable Applications for anti-HCAR2 antibody	ELISA, WB (Western Blot)
Function	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.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expression largely restricted to adipose tissue and spleen. Expressed on mature neutrophils but not on immature neutrophils or eosinophils.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
NIACR1 Antibody (Center) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the NIACR1 antibody detected the NIACR1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-HCAR2 antibody	NIACR1 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.
Product Categories/Family for anti-HCAR2 antibody	Cardiovascular; Cell Biology; Metabolism; Signal Transduction; Phospho Antibodies
References	Li, X., et al. Biochem. Pharmacol. 80(9):1450-1457(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Li, G., et al. J. Biol. Chem. 285(29):22605-22618(2010) Mandrika, I., et al. Biochem. Biophys. Res. Commun. 395(2):281-287(2010) Shen, H.C., et al. J. Med. Chem. 53(6):2666-2670(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	29171311
NCBI GeneID	338442
NCBI Accession #	NP_808219.1
NCBI GenBank Nucleotide #	NM_177551.3
UniProt Accession #	Q8TDS4; A0PJL5; A7LGG3
Molecular Weight	41850
NCBI Official Full Name	hydroxycarboxylic acid receptor 2
NCBI Official Synonym Full Names	hydroxycarboxylic acid receptor 2
NCBI Official Symbol	HCAR2
NCBI Official Synonym Symbols	HCA2; HM74a; HM74b; PUMAG; NIACR1; Puma-g; GPR109A
NCBI Protein Information	hydroxycarboxylic acid receptor 2
UniProt Protein Name	Hydroxycarboxylic acid receptor 2

UniProt Gene Name	HCAR2
UniProt Synonym Gene Names	GPR109A; HCA2; HM74A; NIACR1
UniProt Entry Name	HCAR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/niacr1-antibody-western-blot-elisa/289905>