

HCAR2 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15030

Product Information

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|--------------------------|---|
| Application | WB |
| Primary Accession | Q8TDS4 |
| Other Accession | NM_177551 , NP_808219 |
| Reactivity | Human, Mouse, Rat, Rabbit, Guinea Pig, Bovine |
| Predicted | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 41850 |

Additional Information

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| Gene ID | 338442 |
| Alias Symbol Other Names | HM74a, HM74b, NIACR1, PUMAG, Puma-g Hydroxycarboxylic acid receptor 2, G-protein coupled receptor 109A, G-protein coupled receptor HM74A, Niacin receptor 1, Nicotinic acid receptor, HCAR2, GPR109A, HCA2, HM74A, NIACR1 |
| Format | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| Reconstitution & Storage | Add 50 ul of distilled water. Final anti-HCAR2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| Precautions | HCAR2 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | HCAR2 |
| Synonyms | GPR109A, HCA2, HM74A, NIACR1 |
| 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.

References

Wise A.,et al.J. Biol. Chem. 278:9869-9874(2003).

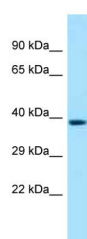
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Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.

Kostylina G.,et al.Cell Death Differ. 15:134-142(2008).

Offermanns S.,et al.Pharmacol. Rev. 63:269-290(2011).

Images



WB Suggested Anti-HCAR2 Antibody Titration: 1.0 µg/ml
Positive Control: MCF7 Whole Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.