

HCAR3 / GPR109B / HM74 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10059**Specification****HCAR3 / GPR109B / HM74 Antibody (N-Terminus) - Product Information**

Application	IHC-P, ICC
Primary Accession	P49019
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44kDa KDa
Dilution	IHC-P~~N/A ICC~~N/A

HCAR3 / GPR109B / HM74 Antibody (N-Terminus) - Additional Information**Gene ID** 8843**Other Names**

Hydroxycarboxylic acid receptor 3, G-protein coupled receptor 109B, G-protein coupled receptor HM74, G-protein coupled receptor HM74B, Niacin receptor 2, Nicotinic acid receptor 2, HCAR3, GPR109B, HCA3, HM74B, NIACR2

Target/Specificity

Human GPR109B / HM74. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except HCAR2 (100%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

HCAR3 / GPR109B / HM74 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

HCAR3 / GPR109B / HM74 Antibody (N-Terminus) - Protein Information**Name** HCAR3**Function**

G-protein coupled receptor for 3-hydroxyoctanoate, a fatty acid beta-oxidation intermediate. Signals through the inhibitory G(i)/o family of G-proteins (PubMed:19561068, PubMed:37736747, PubMed:39427321). Acts as a negative feedback regulator of adipocyte lipolysis, helping to counterbalance prolipolytic signals during physiological or pathological elevations in beta-oxidation (PubMed:19561068). Acts as a low

affinity receptor for nicotinic acid. This pharmacological effect requires nicotinic acid doses that are much higher than those provided by a normal diet (PubMed:12522134).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expression largely restricted to adipose tissue and spleen.

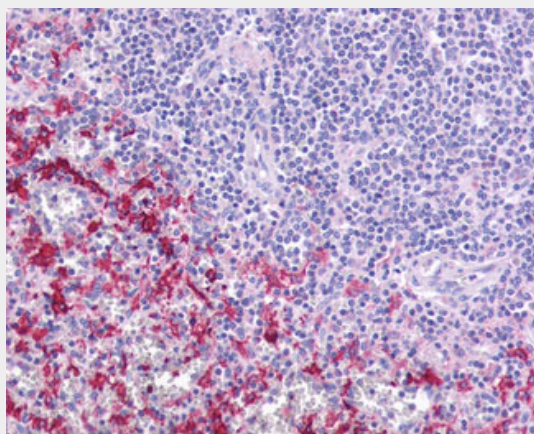
Volume

50 µl

HCAR3 / GPR109B / HM74 Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HCAR3 / GPR109B / HM74 Antibody (N-Terminus) - Images

Anti-GPR109B / HM74 antibody IHC of human spleen.

HCAR3 / GPR109B / HM74 Antibody (N-Terminus) - Background

Receptor for 3-OH-octanoid acid mediates a negative feedback regulation of adipocyte lipolysis to counteract prolipolytic influences under conditions of physiological or pathological increases in beta-oxidation rates. Acts as a low affinity receptor for nicotinic acid. This pharmacological effect requires nicotinic acid doses that are much higher than those provided by a normal diet.

HCAR3 / GPR109B / HM74 Antibody (N-Terminus) - References

Nomura H.,et al.Int. Immunol. 5:1239-1249(1993).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.E.,et al.Nature 440:346-351(2006).
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