SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-GPCR HM74 antibody

SL15367R

Product Name:	GPCR HM74
Chinese Name:	G protein-coupled receptorHM74蛋白抗体
Alias:	G-protein coupled receptor 109B; G-protein coupled receptor HM74; G-protein coupled receptor HM74B; GPR109B; HCA3; HCAR3; HM74; HM74B; Hydroxycarboxylic acid receptor 3; Niacin receptor 2; NIACR2; Nicotinic acid receptor 2; Puma-g; PUMAG; HCAR3_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GPCR HM74:51-150/387<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	HM74 is a member of the G protein coupled receptor (GPCR) superfamily. In humans, HM74 is encoded by two different genes (GPR109A and GPR109B) that express two distinct proteins, namely HM74A and HM74B (also known as simply HM74), which

	are 96% homologous. In mice and rats, only one gene (deisngnated Gpr109a) encodes the HM74 protein. HM74B is a G(i) protein-coupled receptor that mediates the metabolic effects of nicotinic acid. Localizing to the cell membrane, HM74B is highly expressed in adipocytes, immune cells and spleen and, like all members of the GPCR superfamily, contains seven transmembrane domains. HM74B lacks the characteristic N-linked glycosylation sites that are present in other GPCR family members and also shows a more diverged amino acid sequence homology from most family members, implying different ligand specificity **Function:** 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. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Expression largely restricted to adipose tissue and spleen. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **SWISS:** P49019 **Gene ID:** 8843 **Database links:** Entrez Gene: 8843 Human Omim: 606039 Human SwissProt: P49019 Human Unigene: 458425 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.