SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FFAR3/GPR41 antibody

Catalog Number: SL16076R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FFAR3/GPR41
Immunogen:	KLH conjugated synthetic peptide derived from human FFAR3: 121-220/346 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human)
Predicted MW.:	39kDa
Subcellular Location:	The cell membrane
Background:	G protein-coupled receptors (GPRs), also known as seven transmembrane receptors, heptahelical receptors or 7TM receptors, comprise a superfamily of proteins that play a role in many different stimulus-response pathways. GPRs translate extracellular signals into intracellular signals (a process called G-protein activation) and they respond to a variety of signaling molecules, such as hormones and neurotransmitters. GPR41 (G-protein coupled receptor 41), also known as FFAR3 (Free fatty acid receptor 3), is a 346 amino acid multi-pass membrane protein that belongs to the G protein-coupled receptor family. Expressed at high levels in adipose tissue and at lower levels throughout the body, GPR41 functions as a receptor for short chain fatty acids via elevation of

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	intracellular calcium levels and inhibition of adenylyl cyclase. **Function:** Receptor for short chain fatty acids. The activity of this receptor is coupled to the formation of inositol 1,4,5-trisphosphate, intracellular Ca2+ mobilization, the activation of ERK 1/2 and inhibition of intracellular cAMP accumulation. Coupled exclusively to the pertussis toxin-sensitive G(i/o)-alpha protein. The rank order of potency for agonists of this receptor is propionate = pentanoate = butyrate > acetate > formate. **Subcellular Location:** Cell membrane. **Tissue Specificity:** Highest level in adipose tissue, and lower expression across all tissues tested. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **Database links:** **Entrez Gene:** 2865 Human Omim: 603821 Human **SwissProt:** O14843 Human **Unigene:** 248055 Human

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