bs-16076R **[Primary Antibody]**

FFAR3/GPR41 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2865 **SWISS:** O14843

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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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 intracellular calcium levels and inhibition of adenylyl cyclase.

Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: (predicted: Human)

Predicted MW.: 39 kDa

Subcellular Location: Cell membrane

SELECTED CITATIONS

- **[IF=6.3]** Jing Zhang. et al. Dietary supplementation of sodium butyrate enhances lactation performance by promoting nutrient digestion and mammary gland development in dairy cows. ANIM NUTR. 2023 Sep;: WB ;Bovine. 10.1016/j.aninu.2023.08.008
- **[IF=6.1]** Han Gong. et al. Polar lipid-enriched milk fat globule membrane supplementation in maternal high-fat diet promotes intestinal barrier function and modulates gut microbiota in male offspring. FOOD FUNCT. 2023 Nov;: WB ;Rat. 37909908
- **[IF=5.7]** Xiaojun He. et al. The single-cell atlas of short-chain fatty acid receptors in human and mice hearts. FRONT IMMUNOL. 2025 Apr;16: IHC ;Human. 40308581
- **[IF=3.454]** Li T et al. Bovine α-lactalbumin hydrolysates ameliorate obesity-associated endotoxemia and inflammation in high-fat diet-fed mice through modulation of gut microbiota. Food Funct. 2019 May 17. WB ;Mouse. 31099356