bs-20747R **[Primary Antibody]**

GPR49/LGR5 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 8549 **SWISS:** O75473

Target: GPR49/LGR5

Immunogen: KLH conjugated synthetic peptide derived from human GPR49/LGR5: 211-310/907. < 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: The protein encoded by this gene is a leucine-rich repeat-containing receptor (LGR) and member of the G protein-coupled, 7-transmembrane receptor (GPCR) superfamily. The encoded protein is a receptor for R-spondins and is involved in the canonical Wnt signaling pathway. This protein plays a role in the formation and maintenance of adult intestinal stem cells during postembryonic development. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

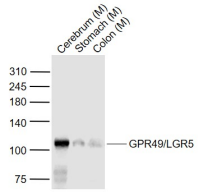
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1µg/Test)

Reactivity: Human, Mouse, Rat

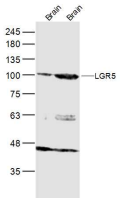
Predicted MW.: 98 kDa

Subcellular Location: Cell membrane

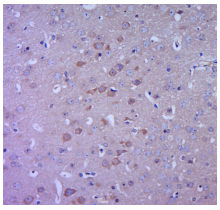
VALIDATION IMAGES



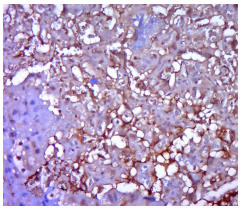
Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Stomach (Mouse) Lysate at 40 ug Lane 3: Colon (Mouse) Lysate at 40 ug Primary: Anti-GPR49/LGR5 (bs-20747R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 100 kD Observed band size: 105 kD



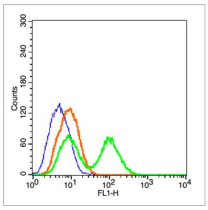
Sample: Brain (Mouse) Lysate at 40 ug Brain (Rat) Lysate at 40 ug Primary: Anti-LGR5 (bs-20747R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 98 kD Observed band size: 100 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GPR49) Polyclonal Antibody, Unconjugated (bs-20747R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse placenta tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min;



Blank control (blue line): U251(fixed with pre-warmed 4% paraformaldehyde for 30min at 37°C) Primary Antibody (green line): Rabbit Anti-GPR49 antibody (bs-20747R),Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-

Antibody incubation with (GPR49) Polyclonal Antibody, Unconjugated (bs-20747R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

rabbit IgG-FITC,Dilution: 1μg /test.

SELECTED CITATIONS

- **[IF=16.6]** Qi Yadong. et al. Heat-inactivated Bifidobacterium adolescentis ameliorates colon senescence through Paneth-like-cell-mediated stem cell activation. NAT COMMUN. 2023 Sep;14(1):1-19 IF,WB ;Mouse. 37777508
- **[IF=5.7]** Jinmiao Tian. et al. QPH-FR: A Novel Quinoa Peptide Enhances Chemosensitivity by Targeting Leucine-Rich Repeat-Containing G Protein-Coupled Receptor 5 in Colorectal Cancer. J AGR FOOD CHEM. 2024;XXXX(XXX):XXX-XXX IP,WB ;Human. 39047262
- **[IF=6.208]** Ling Ding. et al. Bufalin Inhibits Tumorigenesis, Stemness, and Epithelial–Mesenchymal Transition in Colorectal Cancer through a C-Kit/Slug Signaling Axis. INT J MOL SCI. 2022 Jan;23(21):13354 WB ;Human. 36362141
- **[IF=6.1]** Yingcong Yu. et al. β-Nicotinamide Mononucleotide Supplementation Prolongs The Lifespan Of Premature Ageing Mice And Protects Colon Function In Ageing Mice. FOOD FUNCT. 2024 Feb;: IF,WB ;Mouse. 38445897
- **[IF=5.076]** Liu Yahong. et al. Preclinical Evaluation of Safety, Pharmacokinetics, Efficacy, and Mechanism of Radioprotective Agent HL-003. Oxid Med Cell Longev. 2021;2021:6683836 IHC ;Mouse. 33688393