

**bs-1117R****[ Primary Antibody ]****GPR49 Rabbit pAb**

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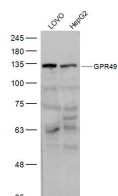
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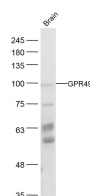
**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 14160**SWISS:** Q9Z1P4**Target:** GPR49**Immunogen:** KLH conjugated synthetic peptide derived from mouse GPR49: 810-907/907.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (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.

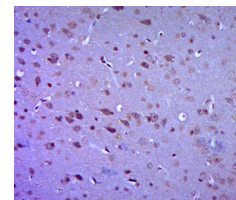
**Background:** The protein encoded by this gene is a leucine-rich repeat-containing receptor (LGR) and member of the G protein-coupled, 7-transmembrane receptor (GPCR) superfamily. The encoded protein is a receptor for R-spondins and is involved in the canonical Wnt signaling pathway. This protein plays 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**

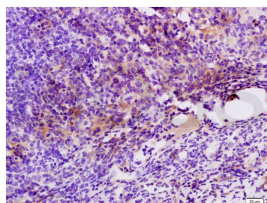
Sample: LOVO(Human) Cell Lysate at 30 ug  
HepG2(Human) Cell Lysate at 30 ug Primary:  
Anti-GPR49 (bs-1117R) at 1/500 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 98 kD  
Observed band size: 125 kD



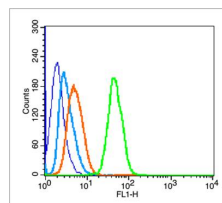
Sample: Brain (Mouse) Lysate at 40 ug Primary:  
Anti-GPR49 (bs-1117R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 98 kD  
Observed band size: 98 kD



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-1117R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: mouse colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat



Blank control (blue line):Hela(blue). Primary Antibody (green line): Rabbit Anti-GPR49 antibody(bs-1117R), Dilution: 3µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

serum,C-0005) at 37°C for 20 min; Incubation: Anti-GPR49/LGR5 Polyclonal Antibody, Unconjugated(bs-1117R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

The cells were fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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## — SELECTED CITATIONS —

- **[IF=17.373]** Lai Wei. et al. Serotonin Deficiency is Associated with Delayed Gastric Emptying. Gastroenterology. 2021 Mar;; IHC ;Human. 33662386
- **[IF=3.337]** Maiko Machida. et al. Methotrexate mediates the integrity of intestinal stem cells partly through nitric oxide-dependent Wnt/ $\beta$ -catenin signaling in methotrexate-induced rat ileal mucositis. J Pharmacol Sci. 2022 Mar;148:281 IHC ;Rat. 35177206
- **[IF=2]** Yan Ziqiao. et al. Therapeutic mechanism of Liangxue-Guyuan-Yishen decoction on intestinal stem cells and tight junction proteins in gastrointestinal acute radiation syndrome rats. J RADIAT RES. 2023 Sep;; IF ;Rat. 37697698
- **[IF=0]** Hosomichi J et al. Localization of leucine-rich repeat-containing G-protein-coupled receptor 5- and Ki67-positive periodontal cells expressing runt-related transcription factor 2 during tooth movement. Orthodontic Waves.2018. IF,WB ;Rat&Human. 10.1016/j.odw.2018.07.002