

## Anti-LGR-5 Polyclonal Antibody 3

### Product Details

|                   |                                       |
|-------------------|---------------------------------------|
| Ig Type:          | IgG                                   |
| Reactivity:       | Human,Mouse,Rat                       |
| Molecular Weight: | Theoretical: 98 kDa. Actual: 105 kDa. |
| Purification:     | Protein A purified                    |

### Applications

#### 1. Sample:

Brain (Mouse) Lysate at 40 µg

Brain (Rat) Lysate at 40 µg

Primary: Anti-LGR5 (TMAB-01065) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 98 kDa

Observed band size: 100 kDa

#### 2. Sample:

Lane 1: Cerebrum (Mouse) Lysate at 40 µg

Lane 2: Stomach (Mouse) Lysate at 40 µg

Lane 3: Colon (Mouse) Lysate at 40 µg

Primary: Anti-GPR49/LGR5 (TMAB-01065) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 100 kDa

Observed band size: 105 kDa

#### Verified Activity:

3. Paraformaldehyde-fixed, paraffin embedded (mouse placenta tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GPR49) Polyclonal Antibody, Unconjugated (TMAB-01065) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

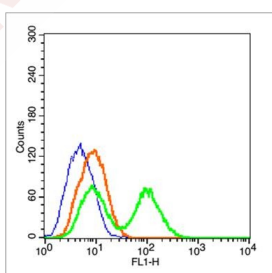
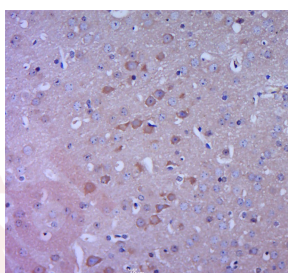
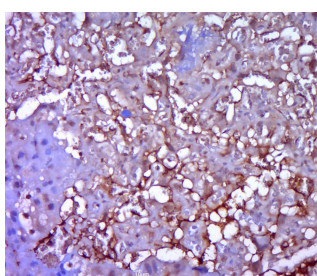
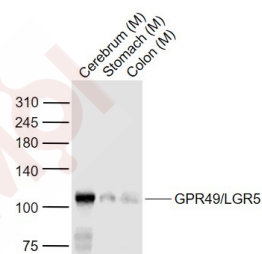
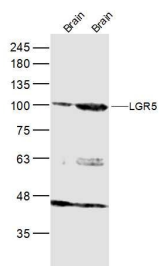
4. Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GPR49) Polyclonal Antibody, Unconjugated (TMAB-01065) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

5. Blank control (blue line): U251 (fixed with pre-warmed 4% paraformaldehyde for 30 min at 37°C)

Primary Antibody (green line): Rabbit Anti-GPR49 antibody (TMAB-01065), Dilution: 1 µg/10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-FITC, Dilution: 1 µg/test.



Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

|                  |   |
|------------------|---|
| Immunogen:       | KLH conjugated synthetic peptide: human GPR49/LGR5  |
| Antigen Species: | Human   |
| Gene ID:         | 8549  |
| Uniprot ID:      | O75473  |
| Synonyms:        | LGR5;G-protein coupled receptor HG38;HG38;GPR49;G-protein coupled receptor 49;G-protein coupled receptor 67;GPR67 |
| Biology Area:    | GPCR, GPCR, Surface Molecules   |

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### Research 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]

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