

LGR5 antibody

Cat. No. GTX130204

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P, IHC-Fr
Reactivity	Human, Mouse

References (2)

Package

100 µl, 25 µl

PRODUCT

Summary

LGR5 antibody recognizes leucine-rich repeat-containing G-protein coupled receptor 5 (LGR5), a receptor protein with a predicted molecular weight of 100 kDa. LGR5, also known as GPR49 or GPR67, is a crucial determinant of the stem cell niche responsible for tissue regeneration in various organs such as the small intestine, colon, and hair follicle. In addition, LGR5 expression is found in cancer stem cells of various tumor types.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:1000-1:10000
ICC/IF	Assay dependent
IHC-P	Assay dependent
IHC-Fr	Assay dependent

Note : As is commonly seen with membrane proteins, significant hydrophobicity can lead to aggregation following boiling of samples prior to SDS-PAGE and subsequent western blotting. We recommend to avoid boiling in this case.

Recommended citrate buffer (pH 6.0) heat-mediated antigen retrieval. The optimal antigen retrieval time is assay dependent. The average time is 2~3 mins. Longer than 5 minutes may destroy the epitope.

Not tested in other applications.

Calculated MW 100 kDa. ([Note](#))

Properties

Form	Liquid
Buffer	PBS, 20% Glycerol
Preservative	0.025% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1.21 mg/ml (Please refer to the vial label for the specific concentration.)

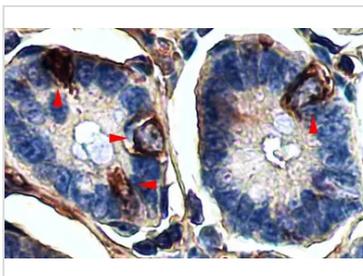


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Immunogen	Recombinant protein encompassing a sequence within the Extracellular domain of human LGR5. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES

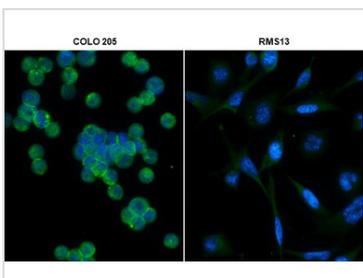
**GTX130204 IHC-P Image**

LGR5 antibody detects LGR5 protein at cell membrane and cytoplasm by immunohistochemical analysis.

Sample: Paraffin-embedded mouse intestine.

LGR5 stained by LGR5 antibody (GTX130204) diluted at 1:25.

Antigen Retrieval: Citrate buffer, pH 6.0, 5 min

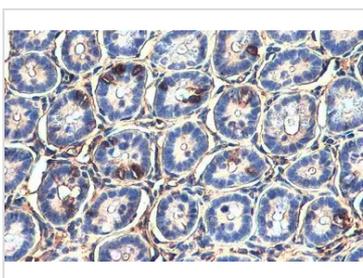
**GTX130204 ICC/IF Image**

LGR5 antibody detects LGR5 protein at cell membrane by immunofluorescent analysis.

Sample: COLO 205 (high expression) and RMS13 (low expression) cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: LGR5 stained by LGR5 antibody (GTX130204) diluted at 1:200.

Blue: Fluoroshield with DAPI (GTX30920).

**GTX130204 IHC-P Image**

LGR5 antibody detects LGR5 protein at cell membrane and cytoplasm by immunohistochemical analysis.

Sample: Paraffin-embedded mouse intestine.

LGR5 stained by LGR5 antibody (GTX130204) diluted at 1:25.

Antigen Retrieval: Citrate buffer, pH 6.0, 3 min



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