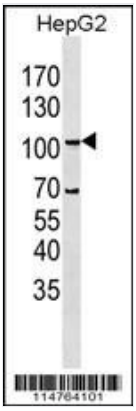
LGR5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LGR5, Polyclonal Antibody
Full Product Name	LGR5, NT (LGR5, GPR49, GPR67, Leucine-rich repeat-containing G-protein coupled receptor 5, G-protein coupled receptor 49, G-protein coupled receptor 67, G-protein coupled receptor HG38) (MaxLight 550)
Product Gene Name	anti-LGR5 antibody
Product Synonym Names	LGR5; GPR49; GPR67; Leucine-rich repeat-containing G-protein coupled receptor 5; G-protein coupled receptor 49; G-protein coupled receptor 67; G-protein coupled receptor HG38
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	99998 MW
OMIM	AF062006 mRNA
3D Structure	ModBase 3D Structure for O75473
Immunogen	LGR5/GPR49 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 247~277 amino acids from the N-terminal region of human LGR5.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-LGR5 antibody	Antibodies; G Protein Receptors
Applications Tested/Suitable for anti-LGR5 antibody	Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-LGR5 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IF: 1:10-50 IHC: 1:10-50 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-LGR5 antibody	LGR5/GPR49 is an orphan receptor. It may be an important receptor for signals controlling growth and differentiation of specific embryonic tissues.
Product References and Citations for anti-LGR5 antibody	Barker, N., Nature 449 (7165), 1003-1007 (2007). McClanahan, T., Cancer Biol. Ther. 5 (4), 419-426 (2006). Yamamoto, Y., Hepatology 37 (3), 528-533 (2003). Hsu, S.Y., Mol. Endocrinol. 14 (8), 1257-1271 (2000).

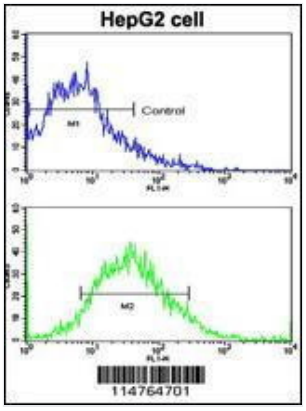
Other Notes	Small volumes of anti-LGR5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LGR5 purchase	MBS6315928 is an antibody targeting LGR5. Also known as LGR5, NT (LGR5, GPR49, GPR67, Leucine-rich repeat-containing G-protein coupled receptor 5, G-protein coupled receptor 49, G-protein coupled receptor 67, G-protein coupled receptor HG38) (MaxLight 550). Reactive in Human. Host: Rabbit.



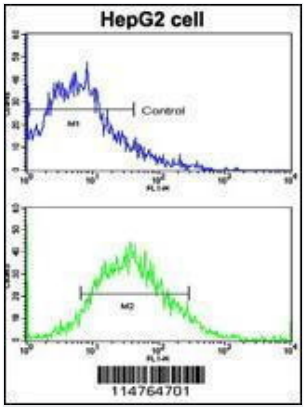
Western Blot (WB) of anti-LGR5 antibody
LGR5/GPR49 Antibody (N-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the LGR5/GPR49 antibody detected the LGR5/GPR49 protein (arrow)(Kindly offered by Dr. Li).



Immunohistochemistry (IHC) of anti-LGR5 antibody
Formalin-fixed and paraffin-embedded human brain tissue reacted with LGR5/GPR49 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-LGR5 antibody
Flow cytometric analysis of HepG2 cells using LGR5/GPR49 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence (IF) of anti-LGR5 antibody
Confocal immunofluorescent analysis of LGR5/GPR49 Antibody (N-term) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LGR5. It may not necessarily be applicable to this product.

NCBI GI #	469608414
NCBI GeneID	8549
NCBI Accession #	NP_001264155.1
UniProt Primary Accession #	O75473
UniProt Secondary Accession #	Q4VAM0; Q4VAM2; Q9UP75; D8MCT0
UniProt Related Accession #	O75473
GenBank Nucleotide #	NM_001277226.1
NCBI Official Full Name	leucine-rich repeat-containing G-protein coupled receptor 5 isoform 2

NCBI Official Synonym Full Names	leucine rich repeat containing G protein-coupled receptor 5
NCBI Official Symbol	LGR5
NCBI Official Synonym Symbols	FEX; HG38; GPR49; GPR67; GRP49
UniProt Protein Name	Leucine-rich repeat-containing G-protein coupled receptor 5
UniProt Synonym Protein Names	G-protein coupled receptor 49; G-protein coupled receptor 67; G-protein coupled receptor HG38
Protein Family	Leucine-rich repeat-containing G-protein coupled receptor
UniProt Gene Name	LGR5
UniProt Synonym Gene Names	GPR49; GPR67
NCBI Protein Information	leucine-rich repeat-containing G-protein coupled receptor 5
NCBI Summary for LGR5	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]
UniProt Comments for LGR5	Receptor for R-spondins that potentiates the canonical Wnt signaling pathway and acts as a stem cell marker of the intestinal epithelium and the hair follicle. Upon binding to R-spondins (RSPO1, RSPO2, RSPO3 or RSPO4), associates with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. In contrast to classical G-protein coupled receptors, does not activate heterotrimeric G-proteins to transduce the signal. Involved in the development and/or maintenance of the adult intestinal stem cells during postembryonic development.
Research Articles on LGR5	**1.** This study uncovers a novel cross-talk between LGR5 and TGFbeta signaling in colon cancer and identifies LGR5 as a new modulator of TGFbeta signaling able to suppress colon cancer metastasis.
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