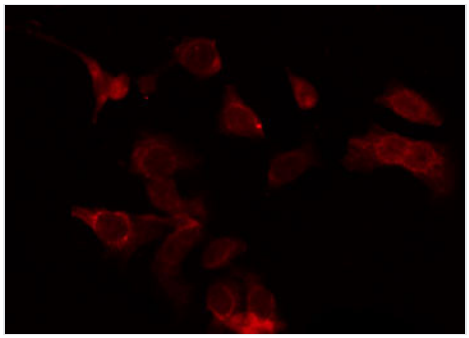
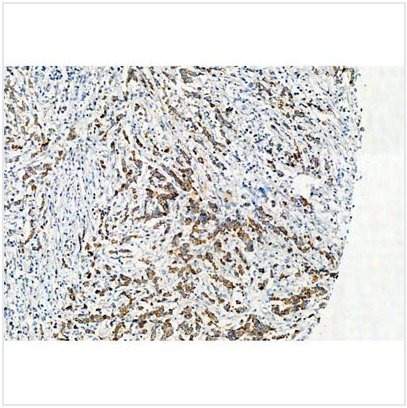
LGR5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

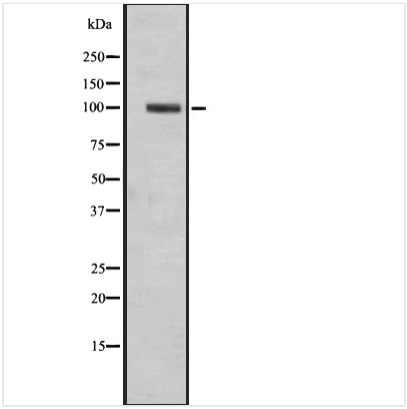
Product Name	LGR5, Polyclonal Antibody
Full Product Name	LGR5 Antibody
Product Gene Name	anti-LGR5 antibody
Product Synonym Names	FEX; G protein coupled receptor 49; G protein coupled receptor 67; g protein-coupled receptor fex; G-protein coupled receptor 49; G-protein coupled receptor 67; G-protein coupled receptor HG38; GPR 49; GPR 67; GPR49; GPR67; GRP 49; GRP49; HG 38; HG38; Leucine rich repeat containing G protein coupled receptor 5; Leucine-rich repeat-containing G-protein coupled receptor 5; LGR 5; LGR5; LGR5_HUMAN; MGC117008; Orphan G protein coupled receptor HG38
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	LGR5 antibody detects endogenous levels of total LGR5
Antibody/Peptide Pairs	LGR5 peptide (MBS9623047) is used for blocking the activity of LGR5 antibody (MBS9604330)
Molecular Weight	100 kDa
3D Structure	ModBase 3D Structure for O75473
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human LGR5, corresponding to a region within the internal amino acids.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LGR5 antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-LGR5 antibody	WB: 1:500-1:2000 IF: 1:100-1:500 ELISA: 1:20000-1:40000 The optimal dilutions should be determined by the end user.
Related Product Information for anti-LGR5 antibody	Description: Orphan receptor. Stem cell marker of the intestinal epithelium and the hair follicule. Target gene of Wnt signaling.
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	MBS9604330 is an antibody targeting LGR5. Also known as LGR5 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunofluorescence (IF) of anti-LGR5 antibody
MBS9604330 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Immunohistochemistry (IHC) of anti-LGR5 antibody
MBS9604330 at 1/100 staining Human mammary cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



Western Blot (WB) of anti-LGR5 antibody
Western blot analysis of LGR5 expression in K562 cell line lysates; the lane is treated with the antigen-specific peptide.

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.** LGR5 overexpression was associated with high T stage and LN metastasis status in breast cancer. High LGR5 expression was also associated with reduced relapse-free survival, indicating that LGR5 may represent a promising prognostic marker for breast cancer patients.
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