LGR5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LGR5, Polyclonal Antibody
Full Product Name	LGR5 (GPR49) Conjugated Antibody
Product Gene Name	anti-LGR5 antibody
Product Synonym Names	FEX; GPR49; GPR67; GRP49; MGC117008
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total LGR5 (GPR49) protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	92,006 Da
OMIM	AF062006 mRNA
3D Structure	ModBase 3D Structure for O75473
Immunogen	Peptide sequence around aa.490~494 (K-I-S-N-Q) derived from Human LGR5 (GPR49).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-LGR5 antibody	Most Applications
Application Notes for anti-LGR5 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-LGR5 antibody	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	MBS9438947 is an antibody targeting LGR5. Also known as LGR5 (GPR49) Conjugated Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4504379
NCBI GeneID	8549
NCBI Accession #	NP_003658.1
UniProt Primary Accession #	O75473
UniProt Secondary Accession #	Q4VAM0; Q4VAM2; Q9UP75; D8MCT0
UniProt Related Accession #	O75473
GenBank Nucleotide #	NM_003667.2
NCBI Official Full Name	leucine-rich repeat-containing G-protein coupled receptor 5 isoform 1
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; G-protein coupled receptor 49; G-protein coupled receptor 67; G-protein coupled receptor HG38; orphan G protein-coupled receptor HG38; 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 is required for the maintenance of spheroid-derived colon cancer stem cells.
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