LGR5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LGR5, Polyclonal Antibody
Full Product Name	LGR5 Rabbit pAb
Product Gene Name	anti-LGR5 antibody
Product Synonym Names	FEX; HG38; GPR49; GPR67; GRP49
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	105kDa
OMIM	AF062006 mRNA
3D Structure	ModBase 3D Structure for O75473
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 824-907 of human LGR5 (NP_003658.1).
Cellular Localization	Cell Membrane, Golgi Apparatus, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LGR5 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-LGR5 antibody	WB: 1:1000-1:2000 IF: 1:50-1:200
Related Product Information for anti-LGR5 antibody	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.
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	MBS8547964 is an antibody targeting LGR5. Also known as LGR5 Rabbit pAb. Reactive in Human, Mouse, Rat. 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 #	469608414

NCBI GeneID	8549
NCBI Accession #	NP_001264155.1
UniProt Primary Accession #	O75473
UniProt Related Accession #	O75473
GenBank Nucleotide #	NP_001264155.1
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]
Research Articles on LGR5	**1.** At 4 to 5 weeks of fetal age, the LGR5(+) population appears to emerge specifically in the proximal outflow tract of human embryonic hearts and thereafter promotes cardiac development
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