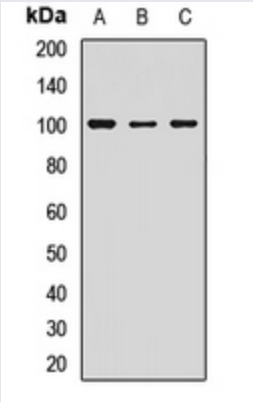
GPR49 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GPR49, Polyclonal Antibody
Full Product Name	Anti-GPR49 Antibody
Product Gene Name	anti-GPR49 antibody
Product Synonym Gene Name	LGR5
Product Synonym Names	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
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	Purified by immunogen affinity chromatography
Specificity	Recognizes endogenous levels of GPR49 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	92,006 Da
OMIM	AF062006 mRNA
3D Structure	ModBase 3D Structure for O75473
Immunogen	Recombinant full length protein of human GPR49
Applications Tested/Suitable for anti-GPR49 antibody	Western Blot (WB)
Application Notes for anti-GPR49 antibody	WB: 1/500 - 1/2000
Related Product Information for anti-GPR49 antibody	MBS8291646 is an antibody targeting GPR49. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to GPR49
Other Notes	Small volumes of anti-GPR49 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.



Western Blot (WB) of anti-GPR49 antibody
Western blot analysis of GPR49 expression in A431 (A), mouse brain (B), rat skeletal muscle (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR49. 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
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 GPR49	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 GPR49	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 GPR49	**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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