

Rabbit LGR5/GPR49 Polyclonal Antibody | anti-LGR5 antibody

LGR5/GPR49 Antibody (N-term)

CATALOG # AAA289886	HOST Rabbit	REACTIVITY Mouse (Predicted: Human)	APPLICATIONS ELISA, Western Blot
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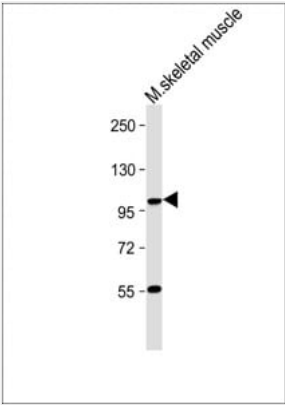
PRODUCT SYNONYMS

LGR5/GPR49; Polyclonal Antibody; LGR5/GPR49 Antibody (N-term); Leucine-rich repeat-containing G-protein coupled receptor 5; G-protein coupled receptor 49; G-protein coupled receptor 67; G-protein coupled receptor HG38; LGR5; GPR49; GPR67; anti-LGR5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse (Predicted: Human)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This LGR5/GPR49 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 238-270 amino acids from the N-terminal region of human LGR5/GPR49.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	238-270
Sequence Length	835
Applicable Applications for anti-LGR5 antibody	ELISA, WB (Western Blot)
Function	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.
Cellular Location	Cell membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Note=Rapidly and constitutively internalized to the trans-Golgi network at steady state. Internalization to the trans-Golgi network may be the result of phosphorylation at Ser-861 and Ser-864; however, the phosphorylation event has not been proven (PubMed:23439653).
Tissue Location	Expressed in skeletal muscle, placenta, spinal cord, and various region of brain. Expressed at the base of crypts in colonic and small mucosa stem cells. In premalignant cancer expression is not restricted to the crypt base. Overexpressed in cancers of the ovary, colon and liver
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Anti-LGR5/GPR49 Antibody (N-term) at 1:1000 dilution + Mouse skeletal muscle lysate
Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase
conjugated at 1/10000 dilution. Predicted band size : 100 kDa Blocking/Dilution buffer: 5%
NFDM/TBST.

ADDITIONAL INFORMATION

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 Categories/Family for anti-LGR5 antibody	Cancer; Signal Transduction; GPCR Antibodies
References	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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	469608414
NCBI GeneID	8549
NCBI Accession #	NP_001264155.1; NP_003658.1
NCBI GenBank Nucleotide #	NM_001277226.1
UniProt Accession #	O75473; Q4VAM0; Q4VAM2; Q9UP75; D8MCT0
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
NCBI Protein Information	leucine-rich repeat-containing G-protein coupled receptor 5
UniProt Protein Name	Leucine-rich repeat-containing G-protein coupled receptor 5
UniProt Gene Name	LGR5
UniProt Synonym Gene Names	GPR49; GPR67
UniProt Entry Name	LGR5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/lgr5-gpr49-antibody-western-blot-elisa/289886>