

Rabbit LGR5 Polyclonal Antibody | anti-LGR5 antibody

LGR5 antibody

CATALOG # AAA224984	HOST Rabbit	APPLICATIONS Western Blot
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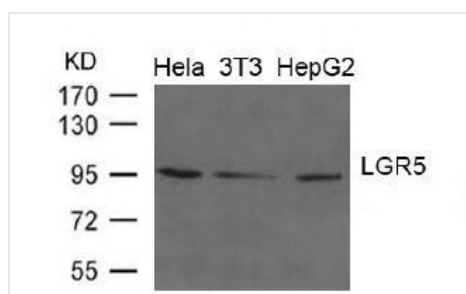
PRODUCT SYNONYMS

LGR5; Polyclonal Antibody; LGR5 antibody; Rabbit polyclonal LGR5 antibody; Polyclonal LGR5 antibody; Anti-LGR5 antibody; LGR 5 antibody; LGR-5; LGR 5; Leucine-rich repeat-containing G-protein coupled receptor 5 antibody; LGR-5 antibody; GPR49 antibody; FEX antibody; anti-LGR5 antibody

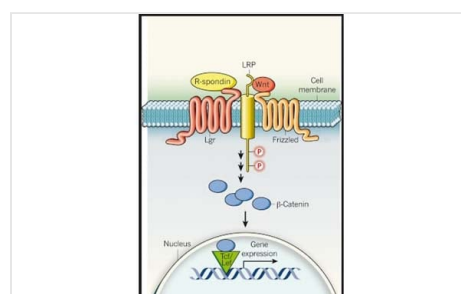
PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Specificity	Polyclonal LGR5 antibody specific for Human LGR5.
Purity/Purification	Purified by immunoaffinity chromatography.
Form/Format	Liquid form in PBS buffer (no MG2+ or Ca2+), pH 7.4, 150 mm NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	907
Applicable Applications for anti-LGR5 antibody	WB (Western Blot)
Immunogen	LGR5 antibody was raised in Rabbit using the peptide sequence around aa 490~494(K-I-S-N-Q) derived from Human LGR5(GPR49) as the immunogen.
Cross-Reactivity	Human, Mouse
Post-Translational Modifications	LGR5 undergoes glycosylation ² at Asn63, Asn77, Asn208, Asn500 and Asn792.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES


WB (Western Blot)

Western Blot analysis of extracts from HeLa, 3T3 and HEPG2 cells using LGR5 antibody (20R-2773)


Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-LGR5 antibody	Biological Significance: LGR5 is a 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), LGR5 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. Sequence Info: LGR5 is composed of 907 amino acids with a molecular weight of 99998 Da. There is a Leucine-rich repeat-containing G-protein coupled receptor 5 chain at amino acids 22 907 and a signal peptide at positions 1 21. Implications in Disease: LGR5 stem cells were identified to fuel stem cell activity in murine intestinal adenomas via erroneous activation of the pro-cell cycle Wnt signalling pathway as a result of successive mutations, such as formation of adenoma via Adenomatous polyposis coli (APC) mutation. Loss of LGR5 actually increased tumourigenicity and invasion whereas overexpression results a reduction in tumourigenicity and clonogenicity. This implies that LGR5 is not an oncogene but a tumor suppressor gene, and that its main role is delimiting stem cell expansion in their respective niches. Varying expression profile of LGR5 was also observed in different stages of gastrointestinal cancers, which suggests that the histoanatomical distribution of LGR5+ve stem cells determine how the cancer advances. Expression Note: Highly expressed in neural cells and is overexpressed in cancers of the ovary, colon and liver. In premalignant cancer expression is not restricted to the cript base. LGR5 is an integral membrane protein expressed in skeletal muscle, placenta, spinal cord, and various region of brain. LGR5 is also expressed at the base of crypts in colonic and small mucosa stem cells.
Product Categories/Family for anti-LGR5 antibody	Differentiation & Development

NCBI AND UNIPROT INFORMATION

NCBI GI #	21542118
NCBI GeneID	8549
UniProt Accession #	O75473; Q4VAM0; Q4VAM2; Q9UP75; D8MCT0
Molecular Weight	92,006 Da
NCBI Official Full Name	Leucine-rich repeat-containing G-protein coupled receptor 5
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

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lgr5-antibody-western-blot-elisa/224984>