

LGR5/GPR49 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2745A

Specification

LGR5/GPR49 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O75473
Other Accession	O9Z1P4
Reactivity	Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	238-270

LGR5/GPR49 Antibody (N-term) - Additional Information

Gene ID 8549

Other Names

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

Target/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.

Dilution

WB~~1:1000

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.

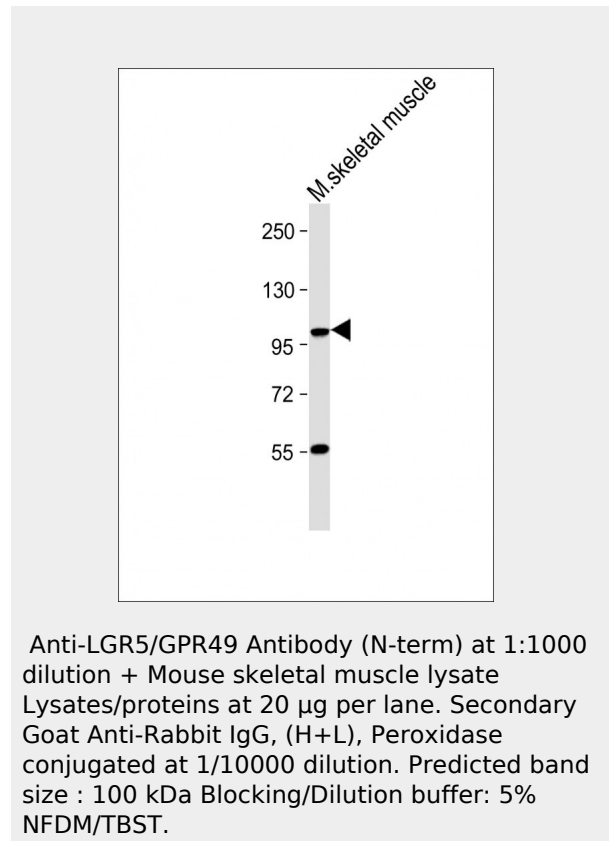
Storage

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.

Precautions

LGR5/GPR49 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LGR5/GPR49 Antibody (N-term) - Protein Information



LGR5/GPR49 Antibody (N-term) - Background

LGR5/GPR49 is an orphan receptor. It may be an important receptor for signals controlling growth and differentiation of specific embryonic tissues.

LGR5/GPR49 Antibody (N-term) - 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)

Name LGR5

Synonyms GPR49, GPR67

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.

LGR5/GPR49 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LGR5/GPR49 Antibody (N-term) - Citations

- [Establishment of a Novel Model for Anticancer Drug Resistance in Three-Dimensional Primary Culture of Tumor Microenvironment.](#)
- [ERBB3 Positively Correlates with Intestinal Stem Cell Markers but Marks a Distinct Non Proliferative Cell Population in Colorectal Cancer.](#)
- [Notch-1 Promotes Stemness and Epithelial to Mesenchymal Transition in Colorectal Cancer.](#)
- [The Wnt/beta-catenin pathway regulates growth and maintenance of colonospheres.](#)