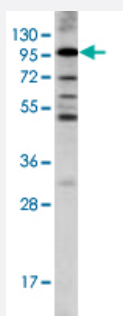


LGR5 polyclonal antibody

Catalog # PAB2591

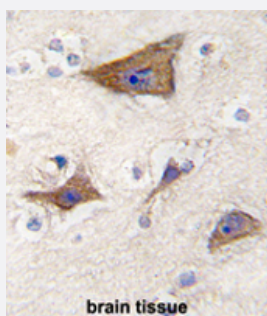
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of LGR5 polyclonal antibody (Cat # PAB2591) in K-562 cell line lysates (35 ug/lane). LGR5 (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human brain tissue reacted with LGR5 polyclonal antibody (Cat # PAB2591), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of LGR5.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 451-480 at internal region of human LGR5.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — LGR5

Entrez GeneID	8549
Protein Accession#	NP_003658;O75473
Gene Name	LGR5
Gene Alias	FEX, GPR49, GPR67, GRP49, HG38, MGC117008
Gene Description	leucine-rich repeat-containing G protein-coupled receptor 5
Omim ID	606667
Gene Ontology	Hyperlink
Other Designations	G protein-coupled receptor 49 G protein-coupled receptor 67 orphan G protein-coupled receptor HG38

Publication Reference

- [Metabolic improvement and liver regeneration by inhibiting CXXC5 function for non-alcoholic steatohepatitis treatment.](#)

Seol Hwa Seo, Eunhwan Kim, Minguen Yoon, Soung-Hoon Lee, Byung-Hyun Park, Kang-Yell Choi.

Experimental & Molecular Medicine 2022 Sep; 54(9):1511.

Application: IF, Mouse, Mouse liver

- [Cytotoxic effect of disulfiram/copper on human cervical cancer cell lines and LGR5-positive cancer stem-like cells.](#)

Hao-Zhe Cao, Wen-Ting Yang, Peng-Sheng Zheng.

BMC Cancer 2022 May; 22(1):521.

Application: WB-Tr, Human, HeLa, SiHa cells

- [LGR6 activates the Wnt/ \$\beta\$ -catenin signaling pathway and forms a \$\beta\$ -catenin/TCF7L2/LGR6 feedback loop in LGR6 high cervical cancer stem cells.](#)

Qian Feng, Shan Li, Hong-Mei Ma, Wen-Ting Yang, Peng-Sheng Zheng.

Oncogene 2021 Oct; 40(42):6103.

Application: IHC, WB-Ti, WB-Tr, Human, Mouse, Mouse model: Caski-xenograft tumors, HeLa-xenograft tumors, SiHa-xenograft tumors

- [Identification of stem cells in small intestine and colon by marker gene Lgr5.](#)

Barker N, van Es JH, Kuipers J, Kujala P, van den Born M, Cozijnsen M, Haegebarth A, Korving J, Begthel H, Peters PJ, Clevers H.

Nature 2007 Oct; 449(7165):1003.

- [Identification of overexpression of orphan G protein-coupled receptor GPR49 in human colon and ovarian primary tumors.](#)

McClanahan T, Koseoglu S, Smith K, Grein J, Gustafson E, Black S, Kirschmeier P, Samatar AA.

Cancer Biology & Therapy 2006 Apr; 5(4):419.

Application: IHC-P, Human, Human colon cancer, ovarian cancer

- [Overexpression of orphan G-protein-coupled receptor, Gpr49, in human hepatocellular carcinomas with beta-catenin mutations.](#)

Yamamoto Y, Sakamoto M, Fujii G, Tsuiji H, Kenetaka K, Asaka M, Hirohashi S.

Hepatology 2003 Mar; 37(3):528.

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Birth Weight](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hyperglycemia](#)
- [Obesity](#)