

Purified anti-human LGR5 (GPR49) Antibody

Catalog# / Size	373802 / 100 µg
Clone	SA222C5
Regulatory Status	RUO
Other Names	G-Protein coupled receptor 49 (GPR49), G-Protein coupled receptor 67 (GPR67), FEX, HG38
Isotype	Mouse IgG2a, κ
Description	LGR5, also known as GPR49, is a 100 KD protein. It is a member of GPCR class A orphan receptor proteins which binds R-spondin and does not activate through heterotrimeric G protein like other GPCR. It triggers the Wnt signaling pathway downstream. LGR5 is expressed across a diverse range of tissue such as in the muscle, placenta, spinal cord and brain and particularly as a biomarker of adult stem cells in certain tissues.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human LGR5 transfectant cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤1 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Product Citations	1. Li Z, <i>et al.</i> 2020. J Clin Lab Anal. 34:e23155. PubMed
RRID	AB_2686986 (BioLegend Cat. No. 373802)

Antigen Details

Structure	G-protein coupled receptor (GPCR) superfamily
Distribution	Muscle, placenta, spinal cord, brain and particularly as a biomarker of adult stem cells in certain tissues.
Function	Triggers Wnt signaling pathway.
Interaction	Wnt pathway
Ligand/Receptor	R-spondins (RSpo 1,2,3, and 4)
Biology Area	Immunology
Antigen References	1. Hsu Sy, <i>et al.</i> 1998. <i>Mol. Endocrinol.</i> 12:1830. 2. Barker N, <i>et al.</i> 2007. <i>Nature.</i> 449:1003.

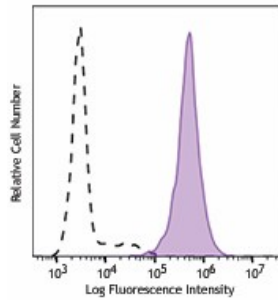
3. Morita H, *et al.* 2004. *Mol. Cell. Biol.* 24(22):9736.
4. Arioka Y, *et al.* 2017. *Stem Cell Res.* 20:1.
5. Wang B, *et al.* 2016. *Plos. One.* 11:e0168904.
6. Garcia MI, *et al.* 2009. *Dev. Biol.* 331:58.

Gene ID [8549](#)

Other Formats

Purified anti-human LGR5 (GPR49), PE anti-human LGR5 (GPR49), APC anti-human LGR5 (GPR49), PE/Dazzle™ 594 anti-human LGR5 (GPR49), PE/Cyanine7 anti-human LGR5 (GPR49)

Product Data



BaF3 cells transfected with human LGR5 were stained with purified LGR5 (clone SA222C5, closed histogram) or purified mouse IgG2a, κ isotype control (open histogram) followed by anti-mouse IgG PE.

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