

Human Lgr5/GPR49 Antibody

Monoclonal Mouse IgG_{2B} Clone # 750835 Catalog Number: MAB80781

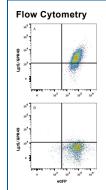
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Lgr5/GPR-49 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 750835
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line, CHO derived recombinant human Lgr5/GPR-49 Met1-lle560 Accession # 075473
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Detection of Lgr5/GPR49 in HEK293 Human Cell Line Transfected with Human Lgr5/GPR49 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human Lgr5/GPR49 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human Lgr5/GPR49 Monoclonal Antibody (Catalog # MAB80781) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # Catalog # MAB0041). Staining was performed using our Staining Membrane-associated Proteins protocol.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.	

BACKGROUND

GPR49 (G-protein-coupled receptor 49), also called LGR5 (leucine-rich repeat GPR 5) is a seven-transmembrane glycoprotein receptor that negatively regulates of Wnt signaling in the developing intestine. Expression of GPR49 is upregulated in intestinal stem cells and intestinal cancer stem cells and promotes carcinogenesis. GPR49 cDNA encodes 907 amino acids (aa), including a long N-terminal extracellular domain (aa 22-561) with 16 LRR domains. Human GPR49 shares 90% aa sequence identity with mouse and rat GPR45 within aa 22-561.

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