

DESCRIPTION

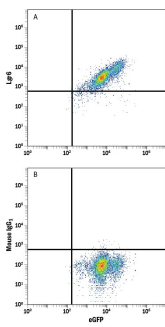
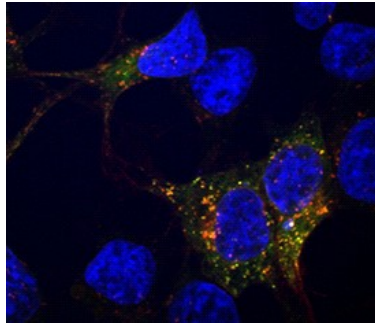
Species Reactivity	Human
Specificity	Stains human Lgr6 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG ₁ Clone # 918719
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Lgr6 Met1-Val967 Accession # Q9HBX8
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
Immunocytochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p>  <p>Detection of Lgr6 in HEK293 Human Cell Line Transfected with Human Lgr6 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with human Lgr6 and eGFP was stained with either (A) Mouse Anti-Human Lgr6 Monoclonal Antibody (Catalog # MAB8458) or (B) Mouse IgG₁ Isotype Control (Catalog # MAB002) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B).</p>	<p>Immunocytochemistry</p>  <p>Lgr6 in HEK293 Human Cell Line. Lgr6 was detected in immersion fixed HEK293 human embryonic kidney cell line transfected with human Lgr6 and eGFP (green) using Mouse Anti-Human Lgr6 Monoclonal Antibody (Catalog # MAB8458) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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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. <ul style="list-style-type: none"> • 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

Lgr6 is a glycoprotein hormone receptor phosphorylated upon DNA damage, probably by ATM or ATR. It is a member of the leucine-rich repeat-containing subgroup of the G protein-coupled 7-transmembrane protein superfamily. Lgr6 is a high affinity receptor for R-Spondins 1-3 and potentially functions as a tumor suppressor despite its positive effect on Wnt/β-Catenin signaling.