

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-Ile560 Accession # O75473
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human Lgr5/GPR49 and eGFP

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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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