Data Sheet (Cat.No.TMAH-00695)

Anti-LGR-5 Antibody (8V603)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Rat
Conjugation:	Unconjugated
Clone:	8V603
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. Western Blot -Positive WB detected in: SH-SY5Y whole cell lysate, Rat brain tissue -All lanes: LGR5 antibody at 1:1500 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 100, 98, 93 kDa -Observed band size: 100 kDa 2. Overlay histogram showing HepG2 cells stained with TMAH-00695 (red line) at 1:50. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10^6 cells) for 45min at 4°C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C. Control antibody (green line) was Rabbit IgG (1µg/1*10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.
Application:	ELISA, WB, FCM
Recommended	WB:1:500-1:5000; FCM:1:20-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human LGR5/GPR49
Antigen Species:	Human
Gene ID:	8549
Uniprot ID:	O75473
Synonyms:	HG38;G-protein coupled receptor 49;G-protein coupled receptor HG38;G-protein coupled receptor 67;GPR67;GPR49;LGR5
Biology Area:	Cancer, Signal transduction, Stem cells

Research Background

Receptor for R-spondins that potentiates the canonical Wnt signaling pathway and acts as a stem cell marker of the intestinal epithelium and the hair follicle. Upon binding to R-spondins (RSPO1, RSPO2, RSPO3 or RSPO4), associates

with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. In contrast to classical G-protein coupled receptors, does not activate heterotrimeric G-proteins to transduce the signal. Involved in the development and/or maintenance of the adult intestinal stem cells during postembryonic development.

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