

Datasheet for ABIN389218
anti-LGR5 antibody (AA 689-719)

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Overview

Quantity:	200 µL
Target:	LGR5
Binding Specificity:	AA 689-719
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LGR5 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	This LGR5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 689-719 amino acids from human LGR5.
Clone:	RB14211
Isotype:	IgG
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	LGR5
Alternative Name:	LGR5/GPR49 (LGR5 Products)
Background:	LGR5/GPR49 is an orphan receptor. It may be an important receptor for signals controlling

Target Details

growth and differentiation of specific embryonic tissues. Stem cell marker of the intestinal epithelium and the hair follicle. Target gene of Wnt signaling. Expressed in skeletal muscle, placenta, spinal cord, and various region of brain. Expressed at the base of crypts in colonic and small mucosa stem cells. In premalignant cancer expression is not restricted to the cript base. Overexpressed in cancers of the ovary, colon and liver.

Molecular Weight:	99998
Gene ID:	8549
NCBI Accession:	NP_001264155 , NP_003658
UniProt:	O75473
Pathways:	WNT Signaling

Application Details

Application Notes:	WB: 1:1000. IF: 1:100. FC: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.
Expiry Date:	6 months

Publications

Product cited in:	Murakami, Ito, Hagiwara, Yoshida, Sobue, Ichihara, Takagi, Kojima, Tanaka, Tamiya-Koizumi, Kyogashima, Suzuki, Banno, Nozawa, Murate: "ATRA inhibits ceramide kinase transcription in a
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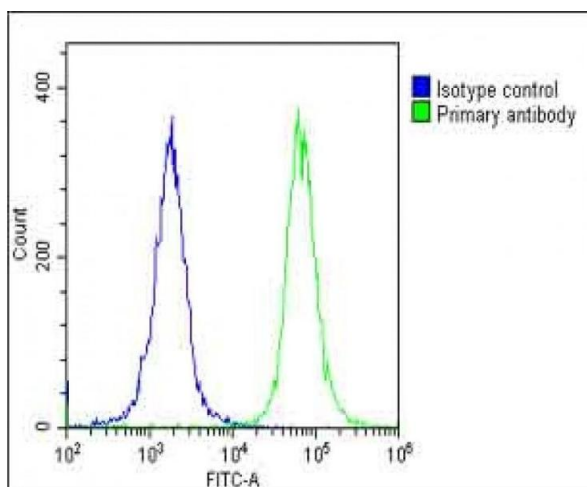
human neuroblastoma cell line, SH-SY5Y cells: the role of COUP-TFI." in: **Journal of neurochemistry**, Vol. 112, Issue 2, pp. 511-20, (2010) ([PubMed](#)).

Yang, Gagarin, St Laurent, Hammell, Toma, Hu, Iwasa, McCaffrey: "Cardiovascular inflammation and lesion cell apoptosis: a novel connection via the interferon-inducible immunoproteasome." in: **Arteriosclerosis, thrombosis, and vascular biology**, Vol. 29, Issue 8, pp. 1213-9, (2009) ([PubMed](#)).

Hinkovska-Galcheva, Clark, VanWay, Huang, Hiraoka, Abe, Borofsky, Kunkel, Shanley, Shayman, Lanni, Petty, Boxer: "Ceramide kinase promotes Ca²⁺ signaling near IgG-opsonized targets and enhances phagolysosomal fusion in COS-1 cells." in: **Journal of lipid research**, Vol. 49, Issue 3, pp. 531-42, (2008) ([PubMed](#)).

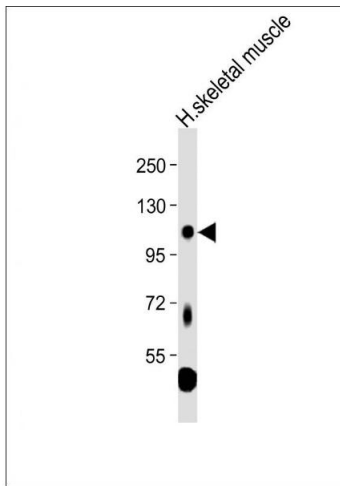
There are more publications referencing this product on: [Product page](#)

Images



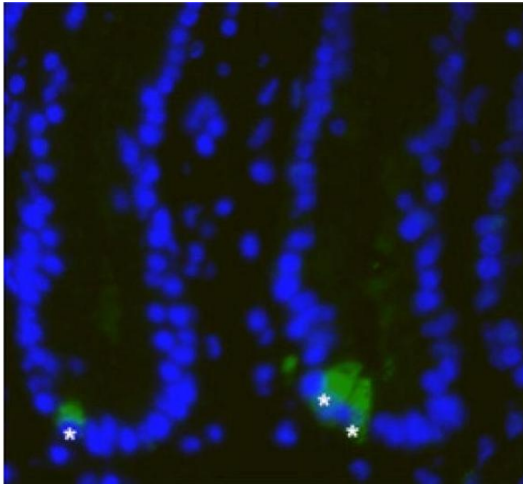
Flow Cytometry

Image 1. Overlay histogram showing Hela cells stained with ABIN389218(green line). The cells were fixed with 2 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then incubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (ABIN389218, 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.



Western Blotting

Image 2. Anti-LGR5 Antibody (loop2) at 1:1000 dilution + Human skeletal muscle tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 100 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Immunofluorescence

Image 3. Fgr5 was stained in rat intestinal crypts longitudinal section, magnification 400Å with FITC goat anti-rabbit IgG (excitation and emission spectrum peak wavelengths of approximately 495 nm/519 nm). Sections were hydrated in PBS for 15 min, blocked for 1h with 5 % BSA, and incubated overnight at 4C. After rinsing with PBS, the slides were incubated for 1 h with the FITC goat anti-rabbit IgG. Asterisks indicate the positive cells. ID: 29669842