Purified anti-human CD289 (TLR9) Antibody

Catalog# / Size	394802 / 100 µg
Clone	S16013D
Regulatory Status	RUO
Other Names	CD289, TLR9, Toll-like receptor 9
Isotype	Rat IgG2a, κ
Description	TLR9 is a member of the toll-like receptor family that aids in recognition of pathogen associated molecular patterns (PAMPs). TLR9 recognizes unmethylated CpG sequences in DNA (ie. intracellular bacteria and DNA viruses). TLR9 signals through the MyD88 pathway leading to inflammatory cytokine production, especially production of type I interferons by pDCs.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	CD289 (TLR9)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	ICFC, FC - *Quality tested*
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	S16013D clone can be used for both surface and intracellular detection of TLR9. ICFC compatible with both the intracellular flow cytometric staining and True-Nuclear™ transcription buffer set. Does not work for WB (tested on Daudi cell line).
RRID	AB_2801036 (BioLegend Cat. No. 394802)

Antigen Details

Distribution	TLR9 is expressed by B cells and plasmacytoid dendritic cells (pDC).
Ligand/Receptor	TLR9 recognizes unmethylated CpG sequences in DNA.
Cell Type	B cells, Dendritic cells
Biology Area	Bacterial proteins and Toxins, Immuno-Oncology, Immunology, Innate Immunity
Molecular Family	CD Molecules, Innate Immune Signaling, Toll Like Receptors
Antigen References	1. Hornung V, *et al.* 2002. *J. Immunol.* 168:4531. 2. Eaton-Bassiri A, *et al.* 2004. *Infect. Immun.* 72:7202. 3. Krieg, A. 2007. *J. Clin. Invest.* 117:1184.

Gene ID 54106

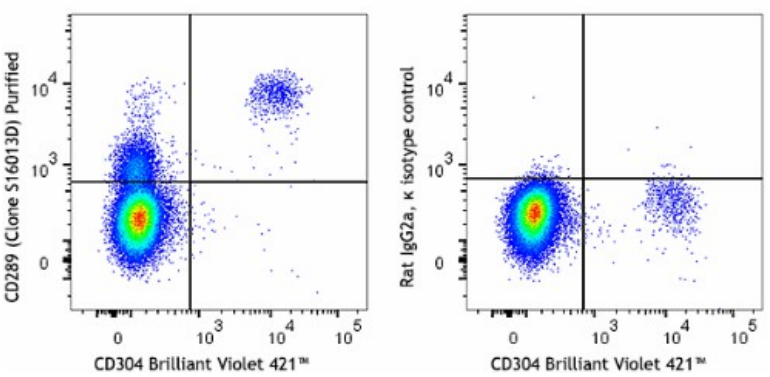
Related Protocols

Intracellular Flow Cytometry Staining Protocol

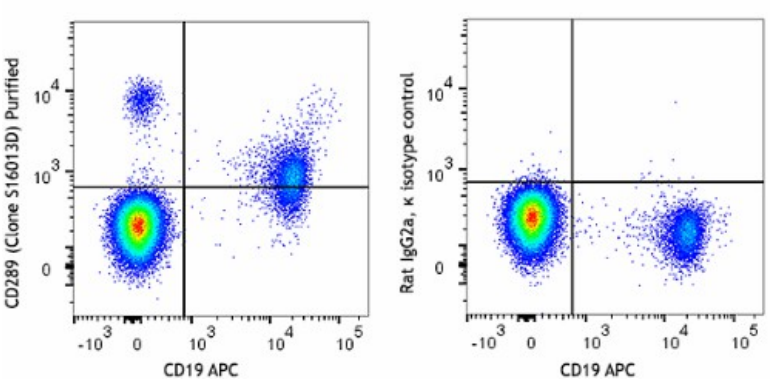
Other Formats

Purified anti-human CD289 (TLR9), PE anti-human CD289 (TLR9), Brilliant Violet 421™ anti-human CD289 (TLR9), APC anti-human CD289 (TLR9), FITC anti-human CD289 (TLR9)

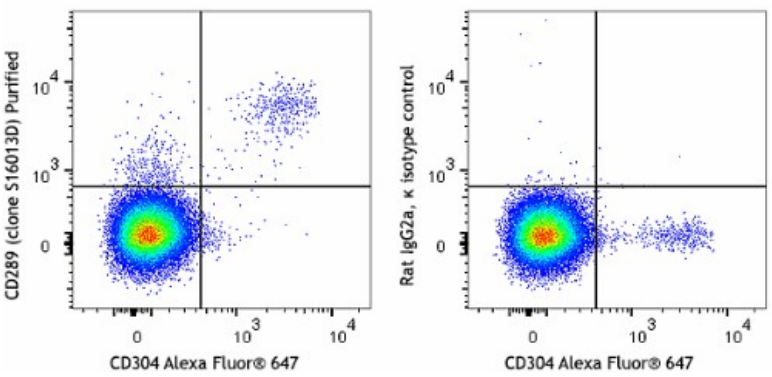
Product Data



Human peripheral blood mononuclear cells were stained with CD304 Brilliant Violet™ 421 and CD19 APC, fixed, permeabilized, and then intracellularly stained with CD289 (TLR9) (clone S16013D) (left) or Rat IgG2a, k isotype control (right) followed by anti-rat IgG2a PE. Dot plots exclude monocytes.



Human peripheral blood mononuclear cells were stained with CD304 Brilliant Violet™ 421 and CD19 APC, fixed, permeabilized, and then intracellularly stained with CD289 (TLR9) (clone S16013D) (left) or Rat IgG2a, k isotype control (right) followed by anti-rat IgG2a PE. Dot plots exclude monocytes.



Human peripheral blood was stained with CD304 Alexa Fluor® 647, CD19 Pacific Blue™, and CD289 (clone S16013D) (left) or Rat IgG2a, κ isotype control (right) followed by anti-rat IgG2a PE. Dot plots exclude monocytes and granulocytes.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587