

## Purified anti-human CD289 (TLR9) Antibody

<b>Catalog# / Size</b>	394802 / 100 µg
<b>Clone</b>	S16013D
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CD289, TLR9, Toll-like receptor 9
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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

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<b>Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	CD289 (TLR9)
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">ICFC, FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">intracellular immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Application Notes</b>	S16013D clone can be used for both surface and intracellular detection of TLR9. ICFC compatible with both the <a href="#">intracellular flow cytometric staining</a> and <a href="#">True-Nuclear™ transcription buffer set</a> . Does not work for WB (tested on Daudi cell line).
<b>RRID</b>	AB_2801036 (BioLegend Cat. No. 394802)

### Antigen Details

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<b>Distribution</b>	TLR9 is expressed by B cells and plasmacytoid dendritic cells (pDC).
<b>Ligand/Receptor</b>	TLR9 recognizes unmethylated CpG sequences in DNA.
<b>Cell Type</b>	B cells, Dendritic cells
<b>Biology Area</b>	Bacterial proteins and Toxins, Immuno-Oncology, Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules, Innate Immune Signaling, Toll Like Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Hornung V, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:4531.</li><li>2. Eaton-Bassiri A, <i>et al.</i> 2004. <i>Infect. Immun.</i> 72:7202.</li><li>3. Krieg, A. 2007. <i>J. Clin. Invest.</i> 117:1184.</li></ol>

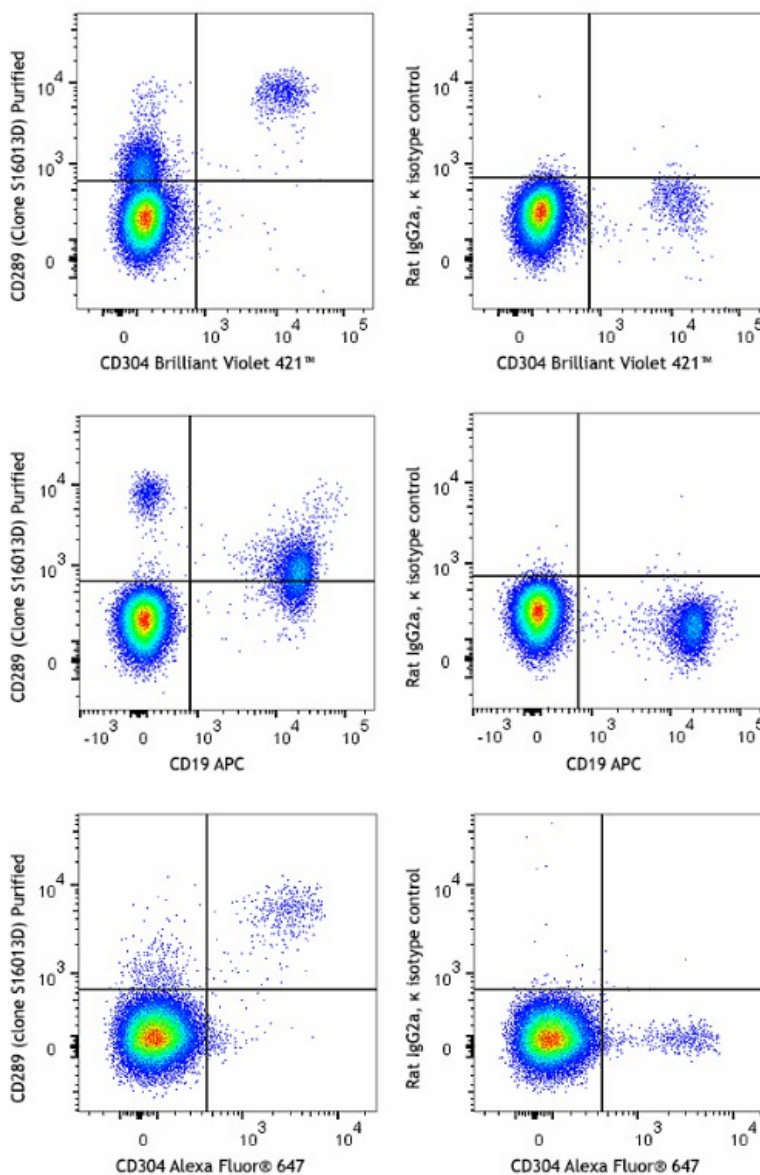
## Related Protocols

[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, κ 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, κ 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.

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