

Brilliant Violet 421™ anti-human CD289 (TLR9) Antibody

Catalog# / Size	394805 / 25 tests 394806 / 100 tests
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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	CD289 (TLR9)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC, FC - Quality tested
Recommended Usage	<p>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 5 μl per million cells in 100 μl staining volume or 5 μl per 100 μl of whole blood.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
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_2801039 (BioLegend Cat. No. 394805) AB_2801039 (BioLegend Cat. No. 394806)

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	<ol style="list-style-type: none"> 1. Hornung V, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:4531. 2. Eaton-Bassiri A, <i>et al.</i> 2004. <i>Infect. Immun.</i> 72:7202. 3. Krieg, A. 2007. <i>J. Clin. Invest.</i> 117:1184.
Gene ID	54106

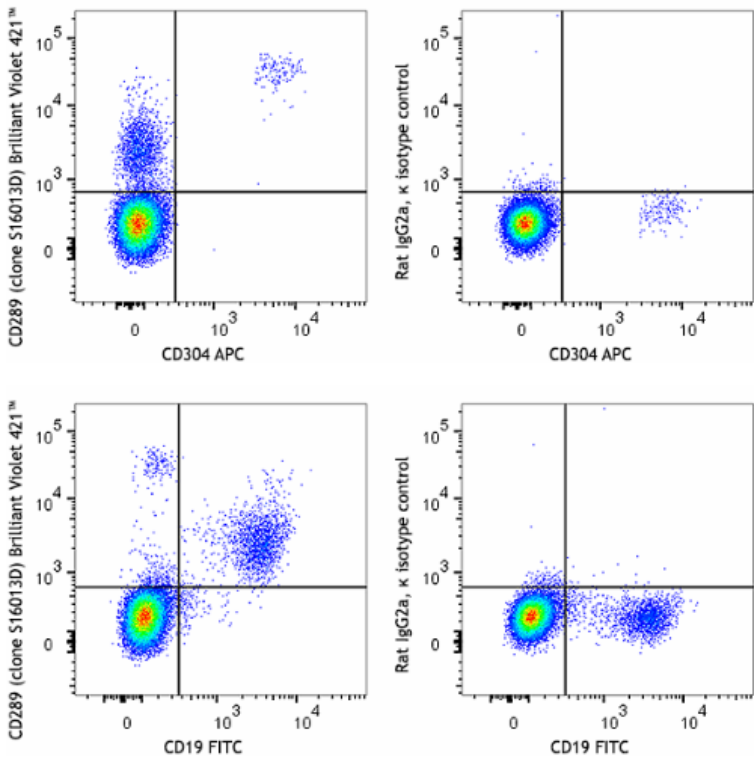
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)
- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

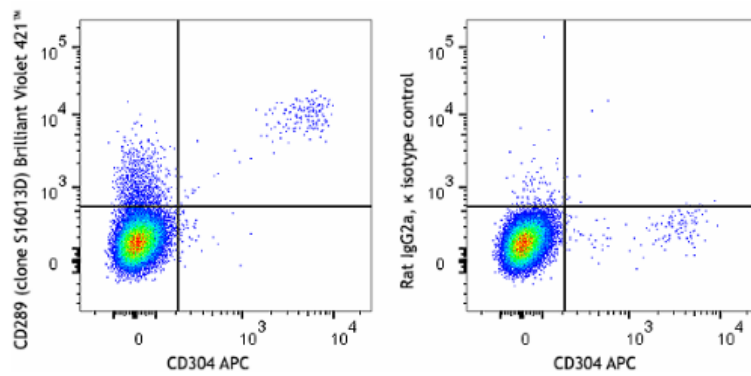
Purified anti-human CD289 (TLR9), PE anti-human CD289 (TLR9), Brilliant Violet 421™ anti-human CD289 (TLR9), APC anti-human CD289 (TLR9), FITC anti-human CD289 (TLR9), APC/Fire™ 810 anti-human CD289 (TLR9)

Product Data



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

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



Human peripheral blood was stained with CD304 APC, CD19 FITC, and CD289 (clone S16013D) Brilliant Violet 421™ (left) or Rat IgG2a, κ Brilliant Violet 421™ isotype control (right). Dot plots exclude monocytes and granulocytes.

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

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