

Brilliant Violet 421™ anti-human CD303 (BDCA-2) Antibody

Catalog# / Size	314415 / 25 tests 314416 / 100 tests
Clone	S19008G
Regulatory Status	RUO
Other Names	CLEC4C, CLECSF11, CLECSF7, DLEC, HECL
Isotype	Mouse IgG2a, κ
Description	CD303, also known as BDCA-2 and CLEC4C, is a 38 kD type II transmembrane glycoprotein. It is a member of the C-type lectin superfamily. CD303 is expressed by plasmacytoid dendritic cells (pDCs) and is involved in cell adhesion, signaling, and antigen capture and processing. Crosslinking of CD303 inhibits the production of IFN- α/β and TLR-9 induced pDCs maturation.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human CLEC4C-transfectants
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	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by 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. It is recommended that the reagent be titrated for optimal performance for each application. 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. Learn more about Brilliant Violet™. 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.
Excitation Laser	Violet Laser (405 nm)

Antigen Details

Structure	Type II transmembrane protein, 38 kD, member of the C-type lectin superfamily
Distribution	Plasmacytoid dendritic cells
Function	Antigen capture, inhibition of IFN α/β production
Cell Type	Dendritic cells
Biology Area	Costimulatory Molecules, Immunology, Innate Immunity
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Jähn PS, <i>et al.</i> 2010. <i>Cell. Immunol.</i> 265:15. 2. Graham LM and Brown GD. 2009. <i>Cytokine.</i> 48:148.
Gene ID	170482

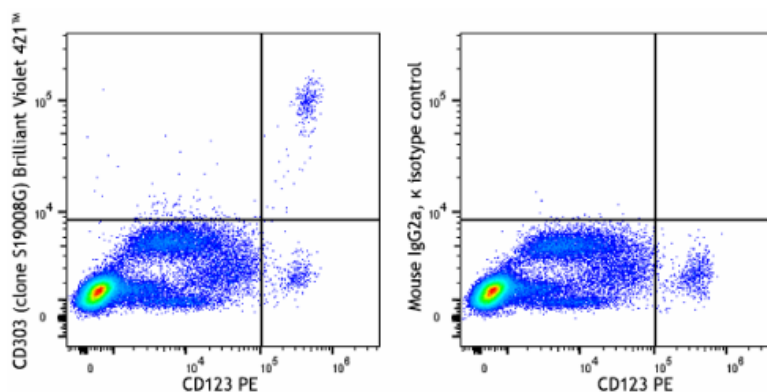
Related Protocols

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

Other Formats

APC anti-human CD303 (BDCA-2) Antibody, PE/Fire™ 810 anti-human CD303 (BDCA-2), PE anti-human CD303 (BDCA-2) Antibody, APC anti-human CD303, GMP APC anti-human CD303, Brilliant Violet 785™ anti-human CD303 (BDCA-2) Antibody, Brilliant Violet 421™ anti-human CD303 (BDCA-2) Antibody, Alexa Fluor® 647 anti-human CD303 (BDCA-2) Antibody, FITC anti-human CD303 (BDCA-2), Purified anti-human CD303 (BDCA-2) Antibody, Brilliant Violet 605™ anti-human CD303 (BDCA-2) Antibody, PE/Cyanine7 anti-human CD303 (BDCA-2) Antibody

Product Data



Human peripheral blood mononuclear cells were stained with anti-human CD123 (clone 6H6) PE and anti-human CD303 (BDCA-2) (clone S19008G) Brilliant Violet 421™ (left) or mouse IgG2a, κ Brilliant Violet 421™ isotype control (right). Data shown was gated on the lymphocyte and monocyte populations.

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