

PE anti-human CD303 (BDCA-2) Antibody

Catalog# / Size	349753 / 25 tests 349754 / 100 tests
Clone	W19421D
Regulatory Status	RUO
Other Names	CLEC4C, CLECSF11, CLECSF7, DLEC, HECL
Isotype	Rat 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	Rat
Immunogen	Human CLEC4C-transfectants (full length)
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 PE 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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone W19421D shows minimal or no non-specific binding to the monocyte compared to both the current catalogue clones (201A & S19008G). Clone W19421D does not cross block with clone 201A. Clone W19421D cross blocks with clone S19008G.
RRID	AB_3720483 (BioLegend Cat. No. 349753) AB_3720483 (BioLegend Cat. No. 349754)

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. 3. Riboldi E, <i>et al.</i> 2011. <i>J Biol Chem.</i> 286:35329-33. 4. Shinde R, <i>et al.</i> 2018. <i>Nat Immunol.</i> 19:571-582.
Gene ID	170482

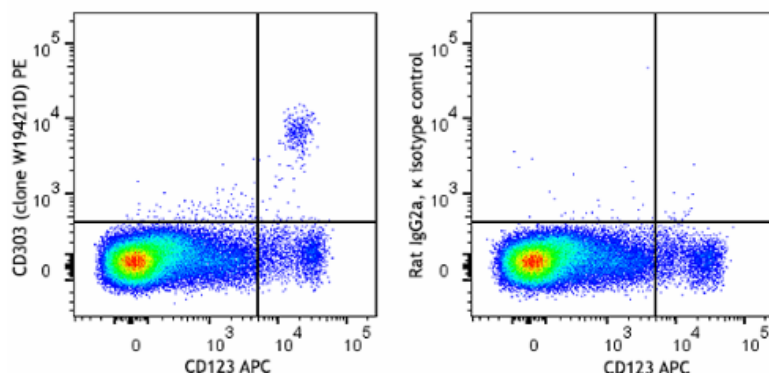
Related Protocols

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

Other Formats

PE anti-human CD303 (BDCA-2), Purified anti-human CD303 (BDCA-2)

Product Data



Human peripheral blood mononuclear cells were stained with anti-human CD123 (clone 6H6) APC and anti-human CD303 (BDCA-2) (clone W19421D) PE (left) or rat IgG2a, κ PE isotype control (right). Data shown was gated on the lymphocyte and monocyte populations.

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