

Alexa Fluor[®] 700 anti-human CD303 (BDCA-2) Antibody

Catalog# / Size	354227 / 25 tests 354228 / 100 tests
Clone	201A
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
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 Alexa Fluor [®] 700 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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	<p>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.</p> <p>* Alexa Fluor[®] 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor[®] 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none">Freeman A, <i>et al.</i> 2014. <i>PLoS One</i>. 9:110928. PubMedJohnson P, <i>et al.</i> 2015. <i>Clin Cancer Res</i>. 21:1321. PubMed
Product Citations	<ol style="list-style-type: none">Ott PA, <i>et al.</i> 2020. <i>Cell</i>. 183(2):347-362.e24. PubMedLe J, <i>et al.</i> 2020. <i>Immunity</i>. 52(6):1105-1118.e9. PubMed
RRID	AB_2629743 (BioLegend Cat. No. 354227) AB_2629744 (BioLegend Cat. No. 354228)

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	<ol style="list-style-type: none">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. Röck J, <i>et al.</i> 2007. <i>Eur. J. Immunol.</i> 37:3564.4. Dzionek A, <i>et al.</i> 2001. <i>J. Exp. Med.</i> 194:1823.
Gene ID	170482

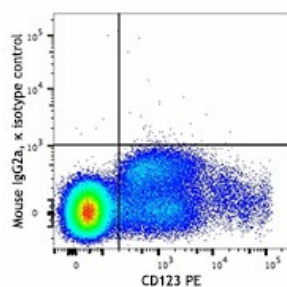
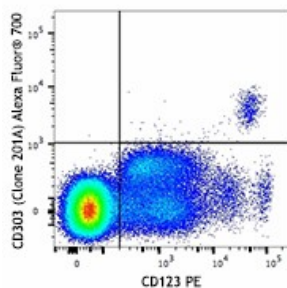
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD303 (BDCA-2), Purified anti-human CD303 (BDCA-2), PE anti-human CD303 (BDCA-2), FITC anti-human CD303 (BDCA-2), PerCP/Cyanine5.5 anti-human CD303 (BDCA-2), Brilliant Violet 421™ anti-human CD303 (BDCA-2), PE/Cyanine7 anti-human CD303 (BDCA-2), Purified anti-human CD303 (BDCA-2) (Maxpar® Ready), Alexa Fluor® 647 anti-human CD303 (BDCA-2), Biotin anti-human CD303 (BDCA-2), Brilliant Violet 785™ anti-human CD303 (BDCA-2), Brilliant Violet 605™ anti-human CD303 (BDCA-2), PE/Dazzle™ 594 anti-human CD303 (BDCA-2), Alexa Fluor® 700 anti-human CD303 (BDCA-2), Alexa Fluor® 488 anti-human CD303 (BDCA-2), Brilliant Violet 510™ anti-human CD303 (BDCA-2), Brilliant Violet 711™ anti-human CD303 (BDCA-2), APC/Fire™ 750 anti-human CD303 (BDCA-2), APC/Cyanine7 anti-human CD303 (BDCA-2), TotalSeq™-A0370 anti-human CD303 (BDCA-2), TotalSeq™-C0370 anti-human CD303 (BDCA-2), TotalSeq™-B0370 anti-human CD303 (BDCA-2), TotalSeq™-D0370 anti-human CD303 (BDCA-2)

Product Data



Human peripheral mononuclear cells were stained with CD123 PE and CD303 (clone 201A) Alexa Fluor® 700 (top) or mouse IgG2a, κ Alexa Fluor® 700 isotype control (bottom). Data shown was gated on lymphocyte and monocyte populations.

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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