

PE/Cyanine7 anti-human CD303 (BDCA-2) Antibody

Catalog# / Size	354213 / 25 tests 354214 / 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 PE/Cyanine7 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	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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> 1. Freeman A, <i>et al.</i> 2014. <i>PLoS One</i>. 9:110928. PubMed 2. Johnson P, <i>et al.</i> 2015. <i>Clin Cancer Res</i>. 21:1321. PubMed
Product Citations	<ol style="list-style-type: none"> 1. Tankou SK, <i>et al.</i> 2018. <i>Ann Neurol</i>. 83:1147. PubMed 2. Jacobs ME, <i>et al.</i> 2021. <i>Immunother Adv</i>. 1:Itaa004. PubMed 3. Cavois M, <i>et al.</i> 2019. <i>PLoS One</i>. 14:e0221181. PubMed 4. Pham TNQ, <i>et al.</i> 2020. <i>Cell Reports</i>. 29(9):2770-2782.e5. PubMed
RRID	AB_2563140 (BioLegend Cat. No. 354213) AB_2563141 (BioLegend Cat. No. 354214)

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

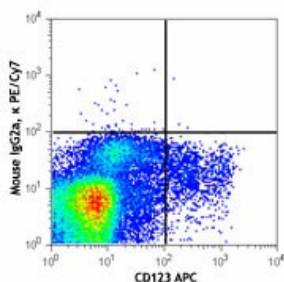
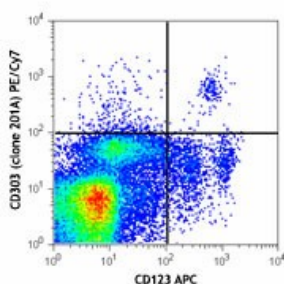
Related Protocols

[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 APC and CD303 (clone 201A) PE/Cyanine7 (top) or mouse IgG2a, κ PE/Cyanine7 isotype control (bottom). Data shown was gated on lymphocyte and monocyte populations.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

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