SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human CD303 (BDCA-2)

Catalog # / Size: 2371125 / 25 tests
2371130 / 100 tests

Clone: 201A

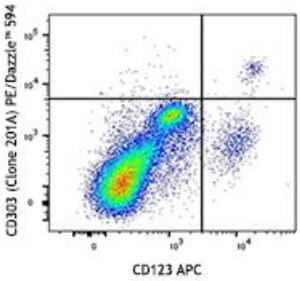
Isotype: Mouse IgG2a, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



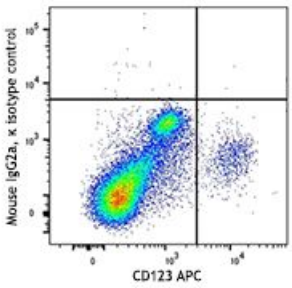
Human peripheral mononuclear cells were stained with CD123 APC and CD303 (clone 201A) PE/Dazzle™ 594 (top) or mouse IgG2a, κPE/Dazzle™ 594 isotype control (bottom). Data shown was gated on lymphocyte and monocyte populations.

Applications:

Applications: Flow Cytometry

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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.



Application References:

1. Freeman A, *et al.* 2014. *PLoS One.* 9:110928. PubMed
2. Johnson P, *et al.* 2015. *Clin Cnacer Res.* 21:1321. PubMed

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.

Antigen References:

1. Jähn PS, *et al.* 2010. *Cell Immunol.* 265:15.
2. Graham LM and Brown GD. 2009. *Cytokine* 48:148.
3. Röck J, *et al.* 2007. *Eur. J. Immunol.* 37:3564.
4. Dzionek A, *et al.* 2001. *J. Exp. Med.* 194:1823.

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