SONY

Product Data Sheet

APC/Fire™ 750 anti-human CD303 (BDCA-2)

Catalog # / Size: 2371180 / 100 tests
2371175 / 25 tests

Clone: 201A

Isotype: Mouse IgG2a, κ

Immunogen: Human CXCR5-transfected cells

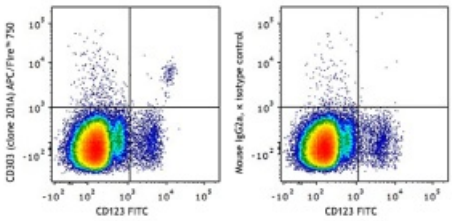
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: Lot-specific



Human peripheral blood lymphocytes and monocytes were stained with True-Stain Monocyte Blocker™ (Cat. No. 426103), CD123 FITC, and CD303 (BDCA-2, clone 201A) APC/Fire™ 750 (left) or mouse IgG2a, κ APC/Fire™ 750 isotype control (right).

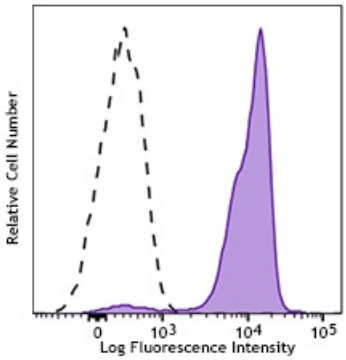
Applications:

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 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.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Clone HA58 recognizes an epitope located in the extracellular D1 domain of CD54.[3]



Human peripheral blood granulocytes were stained with True-Stain Monocyte Blocker™ (Cat. No. 426103) and Siglec-9 (clone K8) APC/Fire™ 750 (filled histogram) or mouse IgG1, κ isotype control APC/Fire™ 750 (open histogram).

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.

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Antigen References:

1. Jahn 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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