SONY

Product Data Sheet

Biotin anti-human CD303 (BDCA-2)

Catalog # / Size: 2371100 / 100 µg

Clone: 201A

Isotype: Mouse IgG2a, κ

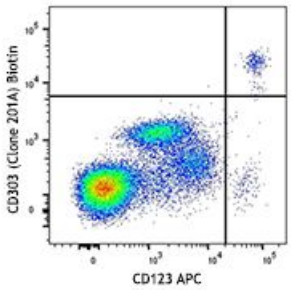
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: HCDM listed

Concentration: 0.5

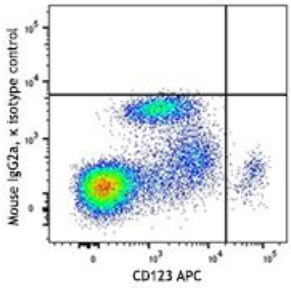


Human peripheral mononuclear cells were stained with CD123 APC and biotinylated CD303 (clone 201A) (top), or biotinylated mouse IgG2a, κisotype control (bottom), followed by SAV-PE. Data shown was gated on the lymphocyte and monocyte populations.

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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



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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