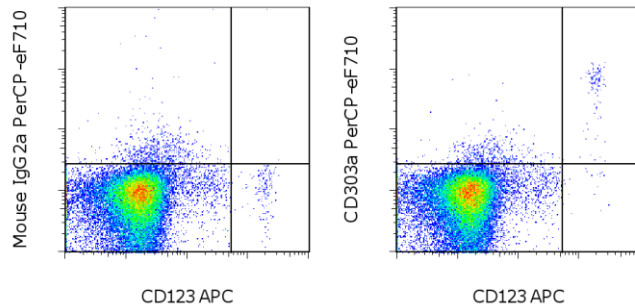


Anti-Human CD303a PerCP-eFluor[®] 710

Catalog Number: 46-9818

Also known as: BDCA-2, CLEC4C

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD123 APC (cat. 17-1239) and Mouse IgG2a K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4724) (left) or Anti-Human CD303a PerCP-eFluor[®] 710 (right). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD303a PerCP-eFluor[®] 710

REF **Catalog Number:** 46-9818

Clone: 201A

Concentration: 5 uL (0.06 ug)/test

Host/Isotype: Mouse IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



Description

This 201A monoclonal antibody reacts with human CD303a, which is also known as CLEC4C or Blood Dendritic Cell Antigen 2. This type II transmembrane protein is expressed almost exclusively on plasmacytoid dendritic cells, which secrete type I interferon during antiviral and antitumor responses. Studies have demonstrated that CD303a binds asialo-galactosyl-oligosaccharides on invading pathogens, resulting in the activation of signaling pathways that lead to CD303a internalization and downregulation of interferon production.

Applications Reported

This 201A antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 201A antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 ug) per test. A test is defined as the amount (ug) of antibody that will stain a cell sample in a final volume of 100 uL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor[®] 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

References

Riboldi E, Daniele R, Parola C, Inforzato A, Arnold PL, Bosisio D, Fremont DH, Bastone A, Colonna M, Sozzani S. Human C-type lectin domain family 4, member C (CLEC4C/BDCA-2/CD303) is a receptor for asialo-galactosyl-oligosaccharides. J Biol Chem. 2011 Oct 14;286(41):35329-33.

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Kassianos AJ, Jongbloed SL, Hart DN, Radford KJ. Isolation of human blood DC subtypes. *Methods Mol Biol.* 2010;595:45-54.

Related Products

00-4222 Flow Cytometry Staining Buffer

17-1239 Anti-Human CD123 APC (6H6)

46-4724 Mouse IgG2a K Isotype Control PerCP-eFluor® 710

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