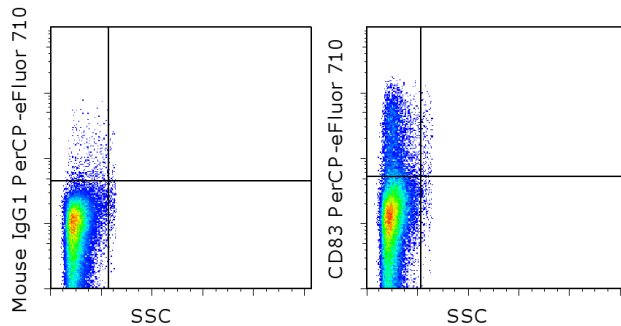


Anti-Human CD83 PerCP-eFluor[®] 710

Catalog Number: 46-0839

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



Staining of 1-day PHA-stimulated normal human peripheral blood cells with Mouse IgG1 K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4714) (left) or Anti-Human CD83 PerCP-eFluor[®] 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD83 PerCP-eFluor[®] 710

REF **Catalog Number:** 46-0839

Clone: HB15e

Concentration: 5 μ L (0.25 μ g)/test

Host/Isotype: Mouse IgG1, kappa

HLDA Workshop: IV T085

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

The HB15e monoclonal antibody reacts with human CD83, a 45 kDa transmembrane glycoprotein. CD83, a member of the Ig superfamily, is expressed on cultured dendritic cells, interdigitating, follicular, and circulating dendritic cells as well as some proliferating lymphocytes, and human cell lines express this antigen. While the function of CD83 is unclear, it can serve as a useful marker for mature human blood dendritic cells.

Applications Reported

This HB15e antibody has been reported for use in flow cytometric analysis.

Applications Tested

This HB15e antibody has been pre-titrated and tested by flow cytometric of stimulated human peripheral blood cells. This can be used at 5 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 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.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

Zhou, L. J. and T. F. Tedder. 1996. CD14+ blood monocytes can differentiate into functionally mature CD83+ dendritic cells. Proc Natl Acad Sci U S A 93(6): 2588-92.

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Zhou, L. J. and T. F. Tedder. 1995. A distinct pattern of cytokine gene expression by human CD83+ blood dendritic cells. *Blood* 86(9): 3295-301.

Zhou, L. J. and T. F. Tedder. 1995. Human blood dendritic cells selectively express CD83, a member of the immunoglobulin superfamily. *J Immunol* 154(8): 3821-35.

Related Products

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

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