

CD83 Monoclonal Antibody (HB15e), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HB15e
Conjugate	APC-eFluor™ 780
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2848359

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	4 Publications

Product Specific Information

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-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This may be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633-647 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

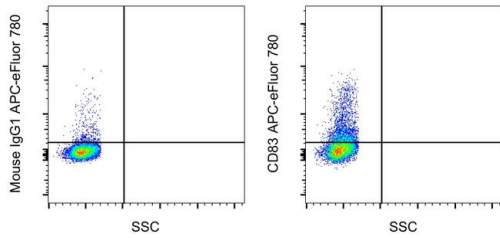
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser

Product Images For CD83 Monoclonal Antibody (HB15e), APC-eFluor™ 780, eBioscience™



CD83 Antibody (47-0839-42) in Flow

Normal human peripheral blood cells were stimulated for 1 day with PHA-L (Product # 00-4977-03) and then stained with Mouse IgG1 kappa Isotype Control, APC-eFluor 780 (Product # 47-4714-82) (left) or CD83 Monoclonal Antibody, APC-eFluor 780 (right). Viable cells in the lymphocyte gate were used for analysis as determined by 7-AAD (Product # 00-6993-50).

[View more figures on thermofisher.com](#)

4 References

Flow Cytometry (4)

Protein & cell

Contact-dependent delivery of IL-2 by dendritic cells to CD4 T cells in the contraction phase promotes their long-term survival.

"Published figure using CD83 monoclonal antibody (Product # 47-0839-42) in Flow Cytometry"

Authors: Tong D,Zhang L,Ning F,Xu Y,Hu X,Shi Y

Species

Not Applicable

Dilution

Not Cited

Year

2020

Journal, genetic engineering & biotechnology

In vitro and *in vivo* studies of the immunomodulatory effect of *Echinacea purpurea* on dendritic cells.

"Published figure using CD83 monoclonal antibody (Product # 47-0839-42) in Flow Cytometry"

Authors: El-Ashmawy NE,El-Zamarany EA,Salem ML,El-Bahrawy HA,Al-Ashmawy GM

Species

Not Applicable

Dilution

Not Cited

Year

2015

[View more Flow references on thermofisher.com](#)

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