

CD83 Monoclonal Antibody (HB15e), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HB15e
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10853671

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	6 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-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can 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.

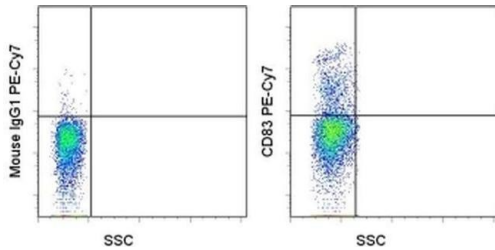
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL 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.

Excitation: 488-561 nm; **Emission:** 775 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD83 Monoclonal Antibody (HB15e), PE-Cyanine7, eBioscience™



CD83 Antibody (25-0839-42) in Flow

Staining of 1-day PHA stimulated normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (left) or Anti-Human CD83 PE-Cyanine7 (right). Total viable cells were used for analysis.

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

6 References

Flow Cytometry (6)

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 # 25-0839-42) in Flow Cytometry"

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

Species

Not Applicable

Dilution

Not Cited

Year

2020

Frontiers in immunology

Schistosoma mansoni rSm29 Antigen Induces a Regulatory Phenotype on Dendritic Cells and Lymphocytes From Patients With Cutaneous Leishmaniasis.

"25-0839 was used in Flow cytometry/Cell sorting to evaluate the potential of the S.mansoni Sm29 antigen to change aspects of profiles of monocyte derived dendritic cells and lymphocytes from subjects with cutaneous leishmaniasis."

Authors: Lopes DM,Oliveira SC,Page B,Carvalho LP,Carvalho EM,Cardoso LS

Species

Human

Dilution

Not Cited

Year

2019

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More applications with references on thermofisher.com

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