

# CD83 Monoclonal Antibody (HB15e), PerCP-eFluor™ 710, 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), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HB15e
Conjugate	PerCP-eFluor™ 710
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_10609339

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	2 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 of stimulated 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

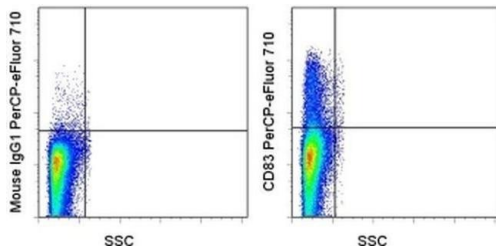
PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

**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 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD83 Monoclonal Antibody (HB15e), PerCP-eFluor™ 710, eBioscience™



### CD83 Antibody (46-0839-42) in Flow

Staining of 1-day PHA-stimulated normal human peripheral blood cells with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4714-82) (left) or Anti-Human CD83 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

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

## 2 References

### Flow Cytometry (2)

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 # 46-0839-42) 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 of leukocyte biology

#### Noncanonical dendritic cell differentiation and survival driven by a bacteremic pathogen.

"Published figure using CD83 monoclonal antibody (Product # 46-0839-42) in Flow Cytometry"

Authors: Miles B,Scisci E,Carrion J,Sabino GJ,Genco CA,Cutler CW

Species

Not Applicable

Dilution

Not Cited

Year

2013

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