

# CD83 Monoclonal Antibody (HB15e), eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	HB15e
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467358

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	10 Publications
Neutralization (Neu)	-	1 Publication

## 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:** The HB15e antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The HB15e antibody has been tested by flow cytometric analysis of human peripheral blood-derived dendritic cells. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.

## 11 References

### Flow Cytometry (10)

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 # 14-0839-82) 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 # 14-0839-82) in Flow Cytometry"

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

Species

Not Applicable

Dilution

Not Cited

Year

2015

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

### Neutralization (1)

PloS one

#### The Polyunsaturated Fatty Acids Arachidonic Acid and Docosahexaenoic Acid Induce Mouse Dendritic Cells Maturation but Reduce T-Cell Responses In Vitro.

"14-0839 was used in Blocking experiments to measure the effects of omega-3, -6 and -9 fatty acids on the interaction between dendritic cells and naïve T cells."

Authors: Carlsson JA,Wold AE,Sandberg AS,Östman SM

Species

Mouse

Dilution

Not Cited

Year

2016

### More applications with references on thermofisher.com

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