

# CD83 Monoclonal Antibody (HB15e), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HB15e
Conjugate	APC
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_2043852

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	1 Publication

## Product Specific Information

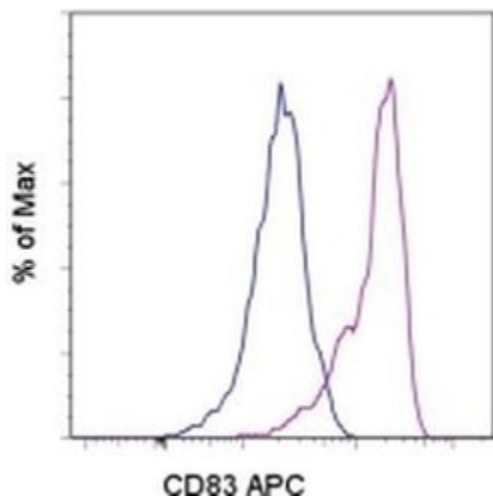
**Description:** The HB15e monoclonal antibody reacts with human CD83, a 45 kDa transmembrane glycoprotein. CD83, a member of the Ig superfamily, is expressed on cultured dendritic cells, interdigitating, follicular, and circulating dendritic cells as well as some proliferating lymphocytes, and human 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:** 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 human dendritic cells. This can be used at 5 µL (0.5 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.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

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



### CD83 Antibody (17-0839-42) in Flow

Normal human monocytes were enriched and stimulated with Human GM-CSF, IL-4 and TNF alpha Recombinant Proteins for 7 days, then stained with Mouse IgG1 kappa Isotype Control APC (Product # 17-4714-81) (blue histogram) or Anti-Human CD83 APC (purple histogram). Cells in the large scatter population were used for analysis.

## 1 Reference

### Flow Cytometry (1)

Journal of leukocyte biology

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

"Published figure using CD83 monoclonal antibody (Product # 17-0839-42) 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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