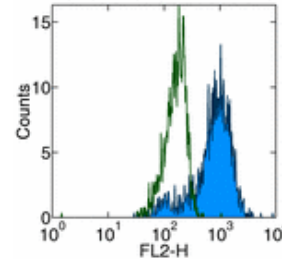


## Product Information

Contents: Biotin anti-human CD83  
Catalog Number: 13-0839  
Sizes: 25 ug, 100 ug  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
DO NOT FREEZE.  
Clone: HB15e  
Isotype: Mouse IgG1, κ  
HLDA No.: IV T085



*Staining of human dendritic cells with anti-human CD83 (HB15e) PE. Normal human monocytes were enriched and stimulated with recombinant human (rh) GM-CSF, rhIL-4 and rhTNFα for 7 days. Cells in the large scatter population were used for analysis.*

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0839	FITC anti-human CD83	488	518	FC
12-0839	PE anti-human CD83	488	575	FC
13-0839	Biotin anti-human CD83	N/A	N/A	FC
14-0839	Affinity Purified anti-human CD83	N/A	N/A	FC

## 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.

## Usage

For research use only, not for diagnostic or therapeutic use. 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 100 µl blood (or per 1 million cells in 100 µl total staining volume). It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

Cat. 11-0839 FITC anti-human CD83 (clone HB15e)  
Cat. 12-0839 PE anti-human CD83 (clone HB15e)  
Cat. 14-0839 Affinity Purified anti-human CD83 (clone HB15e)  
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)  
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)  
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)  
Cat. 13-4714 Biotin Mouse IgG1, K Isotype Control

## References

Zhou, L. J. and T. F. Tedder. 1996. CD14+ blood monocytes can differentiate into functionally mature CD83+ dendritic cells. *Proc Natl Acad Sci U S A* 93(6): 2588-92.

Zhou, L. J. and T. F. Tedder. 1995. A distinct pattern of cytokine gene expression by human CD83+ blood dendritic cells. *Blood* 86 (9): 3295-301.

Zhou, L. J. and T. F. Tedder. 1995. Human blood dendritic cells selectively express CD83, a member of the immunoglobulin superfamily. *J Immunol* 154(8): 3821-35.

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