

## Biotin anti-human CD83 Antibody

<b>Catalog# / Size</b>	305303 / 25 µg 305304 / 100 µg
<b>Clone</b>	HB15e
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	HB15
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD83 is a 43 kD single chain type I glycoprotein also known as HB15. A member of the immunoglobulin superfamily, CD83 is expressed on a subset of dendritic cells, Langerhans cells, and weakly on activated lymphocytes. Although CD83 is thought to play a role in antigen presentation and/or lymphocyte activation, the precise function of this protein is unknown. CD83 is considered to be a useful marker for mature dendritic cells.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	African Green, Baboon, Pigtailed Macaque, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections <sup>4</sup> .
<b>Application References</b> (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"><li>1. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press New York.</li><li>2. Zhou L, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:3821.</li><li>3. Cao W, <i>et al.</i> 2005. <i>Biochem. J.</i> 385:85.</li><li>4. Lore K, <i>et al.</i> 2002. <i>AIDS</i> 16:683. (IHC)</li><li>5. Cho H, <i>et al.</i> 2007. <i>Physiol Genomics</i> doi:10.1152/physiolgenomics.00051.2006</li></ol>
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Suan D <i>et al.</i> 2017. <i>Immunity.</i> 47(6):1142-1153 . <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_314511 (BioLegend Cat. No. 305303) AB_314512 (BioLegend Cat. No. 305304)

### Antigen Details

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<b>Structure</b>	Ig superfamily, single chain transmembrane glycoprotein, 43 kD
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<b>Distribution</b>	Dendritic cells, Langerhan cells, activated B and T cells
<b>Cell Type</b>	B cells, Dendritic cells, Langerhans cells, T cells
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Kozlow E, <i>et al.</i> 1993. <i>Blood</i> 81:454.</li> <li>2. Zhou L, <i>et al.</i> 1992. <i>J. Immunol.</i> 149:735.</li> <li>3. Zhou L, <i>et al.</i> 1995. <i>Blood</i> 86:3295.</li> </ol>
<b>Gene ID</b>	<a href="#">9308</a>

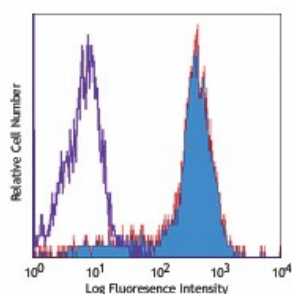
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

APC anti-human CD83, Biotin anti-human CD83, FITC anti-human CD83, PE anti-human CD83, PE/Cyanine5 anti-human CD83, Purified anti-human CD83, Alexa Fluor® 488 anti-human CD83, Alexa Fluor® 647 anti-human CD83, PerCP/Cyanine5.5 anti-human CD83, Brilliant Violet 421™ anti-human CD83, PE/Cyanine7 anti-human CD83, PE/Dazzle™ 594 anti-human CD83, APC/Cyanine7 anti-human CD83, Brilliant Violet 711™ anti-human CD83, APC/Fire™ 750 anti-human CD83, Brilliant Violet 605™ anti-human CD83, Brilliant Violet 785™ anti-human CD83, TotalSeq™-A0359 anti-human CD83, TotalSeq™-C0359 anti-human CD83, TotalSeq™-B0359 anti-human CD83, TotalSeq™-D0359 anti-human CD83

## Product Data



Monocytes-derived dendritic cells (induced with GM-CSF+IL-4+TNF- $\alpha$ ) stained with biotinylated HB15e, followed by Sav-PE

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