

Biotin anti-human CD83 Antibody

Catalog# / Size	305303 / 25 µg 305304 / 100 µg
Clone	HB15e
Regulatory Status	RUO
Other Names	HB15
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Pigtailed Macaque, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . 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.
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections ⁴ .
Application References	<ol style="list-style-type: none">1. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press New York.2. Zhou L, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:3821.3. Cao W, <i>et al.</i> 2005. <i>Biochem. J.</i> 385:85.4. Lore K, <i>et al.</i> 2002. <i>AIDS</i> 16:683. (IHC)5. Cho H, <i>et al.</i> 2007. <i>Physiol Genomics</i> doi:10.1152/physiolgenomics.00051.2006
Product Citations	<ol style="list-style-type: none">1. Suan D <i>et al.</i> 2017. <i>Immunity.</i> 47(6):1142-1153 . PubMed
RRID	AB_314511 (BioLegend Cat. No. 305303) AB_314512 (BioLegend Cat. No. 305304)

Antigen Details

Structure	Ig superfamily, single chain transmembrane glycoprotein, 43 kD
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Distribution	Dendritic cells, Langerhan cells, activated B and T cells
Cell Type	B cells, Dendritic cells, Langerhans cells, T cells
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	1. Kozlow E, <i>et al.</i> 1993. <i>Blood</i> 81:454. 2. Zhou L, <i>et al.</i> 1992. <i>J. Immunol.</i> 149:735. 3. Zhou L, <i>et al.</i> 1995. <i>Blood</i> 86:3295.
Gene ID	9308

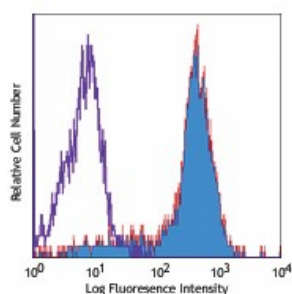
Related Protocols

[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- α) stained with biotinylated HB15e, followed by Sav-PE

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