

PE anti-human CD83 Antibody

Catalog# / Size	305307 / 25 tests 305308 / 100 tests 305322 / 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	test sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA). µg size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	µg sizes: 0.2 mg/mL test sizes: lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. 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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
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"> Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press New York. Zhou L, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:3821. Cao W, <i>et al.</i> 2005. <i>Biochem. J.</i> 385:85. Lore K, <i>et al.</i> 2002. <i>AIDS</i> 16:683. (IHC) Cho H, <i>et al.</i> 2007. <i>Physiol Genomics</i> doi:10.1152/physiolgenomics.00051.2006
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> Blengio F, <i>et al.</i> 2013. <i>Immunobiology.</i> 218:76. PubMed Beljanski V, <i>et al.</i> 2015. <i>J Virol.</i> 89: 10612 - 10624. PubMed Sutton HJ, <i>et al.</i> 2021. <i>Cell Reports.</i> 34(6):108684. PubMed Kan S, <i>et al.</i> 2020. <i>Int J Oncol.</i> 57:1047. PubMed

5. Eriksson E, *et al.* 2016. *Gene Ther.* 10.1038/gt.2016.80. [PubMed](#)
6. Murakami T, *et al.* 2018. *Nat Commun.* 9:2436. [PubMed](#)
7. Nazitto R, *et al.* 2021. *J Immunol.* 206:2949. [PubMed](#)
8. Fitzgerald KC, *et al.* 2021. *Cell Rep Med.* 2:100424. [PubMed](#)
9. Martín-Gayo E, *et al.* 2020. *Cell Rep.* 30:984. [PubMed](#)
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11. Škrnjug I, *et al.* 2014. *PLoS One.* 9:95728. [PubMed](#)
12. Stich L, *et al.* 2022. *Int J Mol Sci.* 23:. [PubMed](#)
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RRID AB_314515 (BioLegend Cat. No. 305307)
 AB_314516 (BioLegend Cat. No. 305308)
 AB_2076529 (BioLegend Cat. No. 305322)

Antigen Details

Structure	Ig superfamily, single chain transmembrane glycoprotein, 43 kD
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

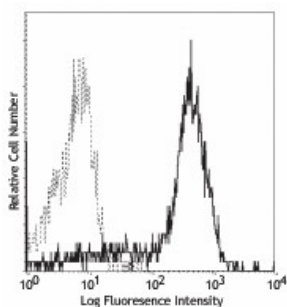
Related Protocols

[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



Monocyte-derived dendritic cells stained with HB15e PE

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