

APC anti-human CD83 Antibody

Catalog# / Size	305311 / 25 tests 305312 / 100 tests
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 and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.
Concentration	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	Red Laser (633 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

- Muto M, *et al.* 2016. *J Am Soc Nephrol.* 10.1681/ASN.2016050496. [PubMed](#)
- Rampal R, Awasthi A, Ahuja V 2016. *Sci Rep.* 6:30277. [PubMed](#)
- Findlay EG, *et al.* 2019. *Oncoimmunology.* 8:1608106. [PubMed](#)
- Aliu B, *et al.* 2020. *Journal of Neurochemistry.* 154(5):486-501. [PubMed](#)
- Guo J, *et al.* 2019. *Cancer Immunol Res.* 1.349305556. [PubMed](#)
- Shey M, *et al.* 2014. *J Immunol.* 192:4833. [PubMed](#)
- Soema P, *et al.* 2015. *Eur J Pharm Biopharm.* 94: 427-435. [PubMed](#)
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11. Liu Y, *et al.* 2020. *Oncol Lett.* 2369:20. [PubMed](#)
12. Deng Y, *et al.* 2016. *Oncogene.* 10.1038/onc.2016.273. [PubMed](#)
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15. Mouser E, *et al.* 2016. *PLoS One.* 11: 0146527. [PubMed](#)
16. Gerlini G, *et al.* 2012. *Blood.* 119:4807. [PubMed](#)
17. Dhandapani H, *et al.* 2021. *J Gynecol Oncol.* 32:e59. [PubMed](#)

RRID AB_314519 (BioLegend Cat. No. 305311)
 AB_314520 (BioLegend Cat. No. 305312)

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	<ol style="list-style-type: none"> 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

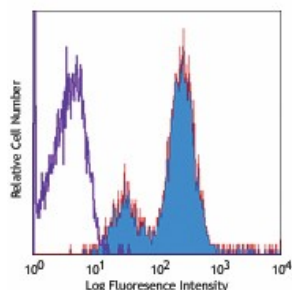
Related Protocols

[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 HB15e APC

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