

Brilliant Violet 711™ anti-human CD83 Antibody

Catalog# / Size	305333 / 25 tests 305334 / 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 Brilliant Violet 711™ 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.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections ⁴ .
Application References	

(PubMed link indicates
BioLegend citation)

1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press New York.
2. Zhou L, *et al.* 1995. *J. Immunol.* 154:3821.
3. Cao W, *et al.* 2005. *Biochem. J.* 385:85.
4. Lore K, *et al.* 2002. *AIDS* 16:683. (IHC)
5. Cho H, *et al.* 2007. *Physiol Genomics* doi:10.1152/physiolgenomics.00051.2006

RRID AB_2650748 (BioLegend Cat. No. 305333)
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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

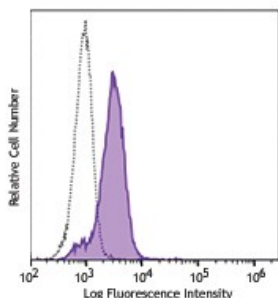
Related Protocols

[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 (induced with GM-CSF and IL-4 and TNF- α) stained with CD83 (clone HB15e) Brilliant Violet 711™ (filled histogram) or mouse IgG1, κ Brilliant Violet 711™ isotype control (open histogram).

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587