

## PE/Cy5 anti-human CD83

**Catalog # / Size:** 305310 / 100 tests

**Clone:** HB15e

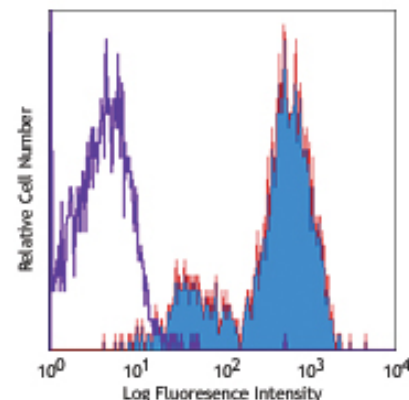
**Isotype:** Mouse IgG1,  $\kappa$

**Reactivity:** Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Monocyte-derived dendritic cells (induced with GM-CSF+IL-4+TNF- $\alpha$ ) stained with HB15e PE/Cy5

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections<sup>4</sup>.

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**Application References:**

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

**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.

**Antigen References:**

- Kozlow E, *et al.* 1993. *Blood* 81:454.
- Zhou L, *et al.* 1992. *J. Immunol.* 149:735.
- Zhou L, *et al.* 1995. *Blood* 86:3295.

### Related Products:

Product	Clone	Application
PE/Cy5 anti-human CD1a	H1149	FC
PE/Cy5 anti-human HLA-DR	L243	FC
PE anti-human CD14	M5E2	FC
PE/Cy5 Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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