

Biotin anti-human CD83

Catalog # / Size: 305303 / 25 µg
305304 / 100 µg

Clone: HB15e

Isotype: Mouse IgG1, κ

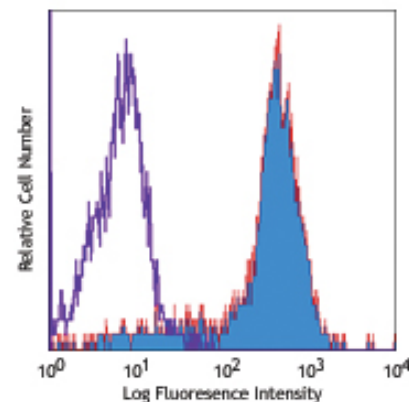
Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Monocytes-derived dendritic cells
(induced with GM-CSF+IL-4+TNF-α)
stained with biotinylated HB15e,
followed by Sav-PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent 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 sections⁴.

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 anti-human CD1a	HI149	FC
PE anti-human HLA-DR	L243	FC
PE anti-human CD14	M5E2	FC
Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
APC Streptavidin		FC, ICFC
APC/Cy7 Streptavidin		FC, ICFC
FITC Streptavidin		FC, ICFC
PE Streptavidin		FC, ICFC
PE/Cy5 Streptavidin		FC, ICFC
PE/Cy7 Streptavidin		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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