

**PE/Cy7 anti-mouse CD83**

**Catalog # / Size:** 1207590 / 100 µg  
1207585 / 25 µg

**Clone:** Michel-19

**Isotype:** Rat IgG1, κ

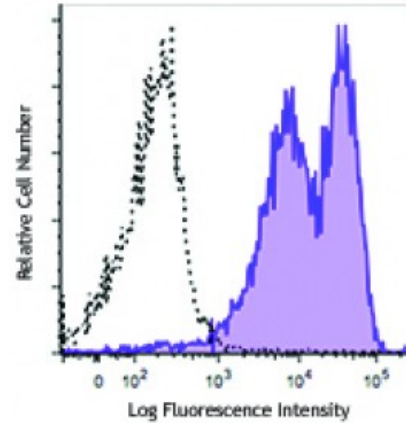
**Immunogen:** Recombinant mouse CD83 protein

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

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

**Concentration:** 0.2



Mouse CD83 transfected cells were stained with CD83 (clone Michel-19) PE/Cy7 (filled histogram), or rat IgG1, κ PE/Cy7 isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for relevant formats of this clone) include: immunohistochemistry of acetone - fixed frozen sections<sup>4</sup>.

- Application References:**
1. Cramer SO, *et al.* 2000. *Int. Immunol.* 12:1347.
  2. Fujimoto Y, *et al.* 2002. *Cell* 108:755.
  3. Mott KR, *et al.* 2009. *Virology*. 6:56. (FC) [PubMed](#)
  4. Roland CI, *et al.* 2009. *Mol Cancer Res.* 8:1761. (IHC) [PubMed](#)
  5. Masuda Y, *et al.* 2010. *Cancer Immunol Immunother.* [Epub ahead of print] (FC) [PubMed](#)
  6. Tze LE, *et al.* 2011. *J Exp Med.* [PubMed](#)
  7. del Rio ML, *et al.* 2011. *Transpl. Int.* 24:501. (FC) [PubMed](#)

**Description:** CD83 is a 45 kD type I transmembrane protein. It belongs to immunoglobulin superfamily and is expressed on mature dendritic cells and activated lymphocytes. CD83 is involved in the regulation of T cell development and immune response. Soluble form CD83 has been reported to inhibit dendritic cell maturation and dendritic cell-mediated T cell proliferation. Murine CD83 ligand has been found on B cells.

- Antigen References:**
1. Lechmann M, *et al.* 2005. *Biochem. Biophys. Res. Commun.* 329:132.
  2. Kotxor N, *et al.* 2004. *Immunobiology* 209:129.
  3. Leon F, *et al.* 2004. *J. Immunol.* 173:2995.
  4. Cramer SO, *et*