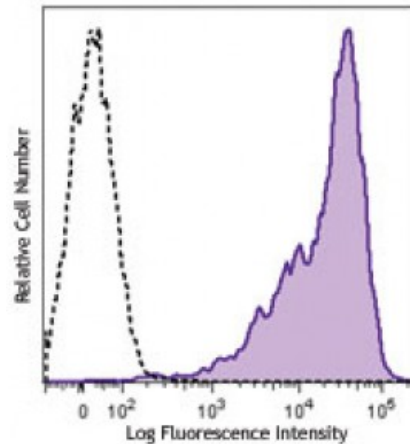


**Brilliant Violet 650™ anti-mouse CD83**

**Catalog # / Size:** 1207575 / 125 µl  
**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 Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).  
**Concentration:** Lot-specific



Mouse CD83 transfected cells stained with Michel-19 Brilliant Violet 650™.

**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 ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 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 650™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** Additional reported applications (for relevant formats of this clone) include: immunohistochemistry of acetone - fixed frozen sections4.

- 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*