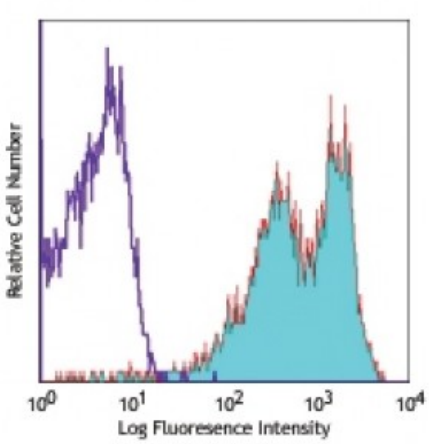
SONY

Product Data Sheet

Alexa Fluor® 647 anti-mouse CD83

Catalog # / Size:	1207570 / 100 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 Alexa Fluor® 647 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



mCD83 transfected cells stained with Michel-19 Alexa Fluor® 647

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. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.
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. *Virol* J. 6:56. (FC) PubMed
4. Roland Cl, *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

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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*