SONY

Product Data Sheet

Brilliant Violet 650™ anti-mouse CD83

Catalog # / Size: 1207575 / 125 µl

Clone: Michel-19

Isotype: Rat IgG1, κ

Immunogen: Recombinant mouse CD83 protein

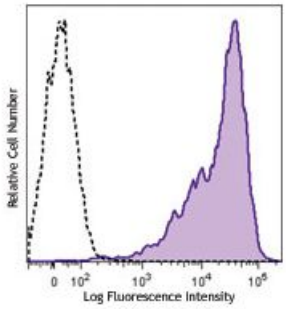
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

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 µl per million cells or 5 µl per 100 µl 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.

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 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

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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 al.* 2000. *Int. Immunol.* 12:1347.
5. Fujimoto Y, *et al.* 2002. *Cell* 108:755.

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