SONY

Product Data Sheet

APC/Fire™ 750 anti-mouse CD366 (Tim-3)

Catalog # / Size: 1198690 / 100 µg
1198685 / 25 µg

Clone: RMT3-23

Isotype: Rat IgG2a, κ

Immunogen: Recombinant mouse OX-40-CD4 chimeric protein

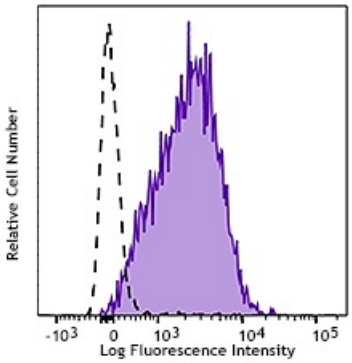
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 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: 0.2



Mouse Tim-3 transfected cells were stained with anti-mouse CD366 (Tim-3, clone RMT3-23) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

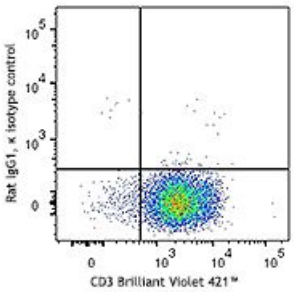
Applications:

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 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Additional reported applications (for relevant formats) include: *in vitro*[1] and *in vivo*[2] blocking of Tim-3, and immunohistochemical staining of frozen sections[2]. The Ultra-LEAF™ purified antibody (Endotoxin <0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 119731-119736).



C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

Application References:

1. Nakae S, *et al.* 2007. *Blood* 110(7):2565-8. (FC, Block)
2. Oikawa T, *et al.* 2006. *J. Immunol.* 177(7):4281-7. (FC, Block, IHC)

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Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Description: CD366 (Tim-3) is a transmembrane protein also known as T cell immunoglobulin and mucin domain containing protein-3. Tim-3 is expressed at high levels on Th1 lymphocytes and $CD11b^{+}$ macrophages. Tim-3 has also been shown to exist as a soluble protein. Cells expressing Tim-3 are present at high levels in the CNS of animals at the onset of experimental autoimmune encephalomyelitis (EAE), a disease mediated by lymphocytes secreting Th1-like cytokines. Tim-3 has been proposed to inhibit Th1-mediated immune responses and promote immunological tolerance.

Antigen References:

1. Sabatos CA, *et al.* 2003. *Nat. Immunol.* 4:1102.
2. Sanchez-Fueyo A, *et al.* 2003. *Nat. Immunol.* 4:1102.
3. Kuchroo VK, *et al.* 2003. *Nat. Rev. Immunol.* 3:454.
4. Mooney L, *et al.* 2002. *Nature* 415:536.

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