SONY

Product Data Sheet

Brilliant Violet 421™ anti-human CD366 (Tim-3)

Catalog # / Size: 2325035 / 25 tests
2325040 / 100 tests

Clone: F38-2E2

Isotype: Mouse IgG1, κ

Immunogen: Human Tim-3 fusion protein

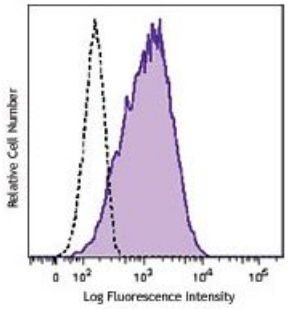
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: Lot-specific



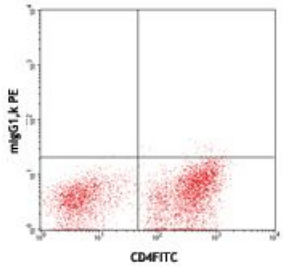
Th1-polarized human peripheral blood lymphocytes were stained with anti-human CD366 (Tim-3, clone F38-2E2) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (open histogram).

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 ≤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 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.



Th1-polarized human peripheral blood mononuclear cells were stained with CD4 FITC and anti-human CD366 (Tim-3, clone F38-2E2) PE (top) or mouse IgG1, κ PE (bottom).

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Application Notes: Additional reported applications (for relevant formats of this clone) include: costimulation1 (clone 2E2 has been shown to enhance T-cell receptor mediated activation and cytokine secretion) and blocking[2,3]. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 345004). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 345010) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

Application References:

1. Hastings WD, *et al.* 2009. *Eur. J. Immunol.* 39:2492. (Costim)
2. Jones RB, *et al.* 2008. *J. Exp. Med.* 205:2763. (Block)
3. Klibi J, et al 2009. *Blood* 113:1957. (FC, Block)

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 activated T cells (preferentially on Th1 cells, monocytes/macrophages, and dendritic cells). 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. Hafler DA and Kuchroo V. 2008. *J. Exp. Med.* 205:2699.
2. Zhu C, *et al.* 2005. *Nat. Immunol.* 6:1245.
3. Wang F, *et al.* 2009. *Immunobiology* 214:342.

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