SONY

Product Data Sheet

Brilliant Violet 711™ anti-human CD366 (Tim-3)

Catalog # / Size: 2325120 / 100 tests
2325115 / 25 tests

Clone: F38-2E2

Isotype: Mouse IgG1, κ

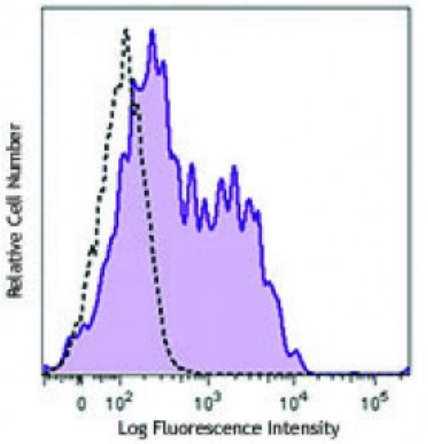
Immunogen: Human Tim-3 fusion protein

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.

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

Concentration: Lot-specific



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with anti-human CD366 (Tim-3, clone F38-2E2) Brilliant Violet 711™ (filled histogram) or mouse IgG1, κ Brilliant Violet 711™ 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 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 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ is a trademark of Sirigen Group Ltd.

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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

1. Hastings WD, *et al.* 2009. *Eur. J. Immunol.* 39:2492. (Costim)

References: 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.