

Brilliant Violet 570™ anti-human CD366 (Tim-3) Antibody

Catalog# / Size	345067 / 25 tests
Clone	F38-2E2
Regulatory Status	RUO
Workshop	HCMD listed
Other Names	T cell immunoglobulin and mucin domain containing protein 3, hepatitis virus cellular receptor 2, CD366
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human Tim-3 fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 570™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 in 100 µL staining volume 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 570™ excites at 405 nm and emits at 570 nm. The bandpass filter 585/42 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 570™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for relevant formats of this clone) include: costimulation ¹ (clone 2E2 has been shown to enhance T-cell receptor mediated activation and cytokine secretion) and blocking ^{2,3} .
Application References (PubMed link indicates BioLegend citation)	1. Hastings WD, <i>et al.</i> 2009. <i>Eur. J. Immunol.</i> 39:2492. (Costim) 2. Jones RB, <i>et al.</i> 2008. <i>J. Exp. Med.</i> 205:2763. (Block) 3. Klibi J, <i>et al.</i> 2009. <i>Blood</i> 113:1957. (FC, Block)
RRID	AB_3717153 (BioLegend Cat. No. 345067)

Antigen Details

Structure	Transmembrane protein containing immunoglobulin domain and mucin-like domain; can exist as a soluble form lacking mucin and transmembrane domains
Distribution	Activated T cells, preferentially on Th1 cells, monocytes, dendritic cells
Function	Plays a role in regulating macrophage activation, T cell apoptosis and immune tolerance
Ligand/Receptor	Galectin-9
Cell Type	Dendritic cells, Monocytes, T cells, Th1, Tregs
Biology Area	Immunology, Inhibitory Molecules
Molecular Family	CD Molecules, Immune Checkpoint Receptors
Antigen References	1. Hafler DA and Kuchroo V. 2008. <i>J. Exp. Med.</i> 205:2699. 2. Zhu C, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6:1245. 3. Wang F, <i>et al.</i> 2009. <i>Immunobiology</i> 214:342.
Gene ID	84868

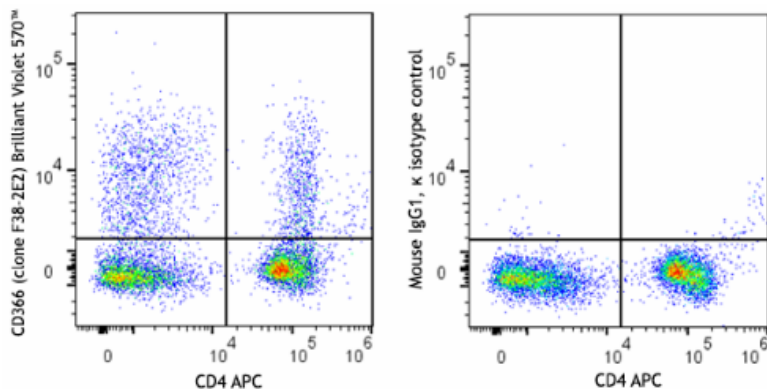
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

TotalSeq™-D0169 anti-human CD366 (Tim-3), PE/Fire™ 810 anti-human CD366 (Tim-3), PE/Fire™ 640 anti-human CD366 (Tim-3), PE/Fire™ 700 anti-human CD366 (Tim-3), Purified anti-human CD366 (Tim-3) (Maxpar® Ready), Brilliant Violet 785™ anti-human CD366 (Tim-3), Brilliant Violet 510™ anti-human CD366 (Tim-3), GolnVivo™ Purified anti-human CD366 (Tim-3), Brilliant Violet 650™ anti-human CD366 (Tim-3), APC/Cyanine7 anti-human CD366 (Tim-3), PE/Dazzle™ 594 anti-human CD366 (Tim-3), APC/Fire™ 750 anti-human CD366 (Tim-3), Pacific Blue™ anti-human CD366 (Tim-3), PE anti-human CD366 (Tim-3), Purified anti-human CD366 (Tim-3), Brilliant Violet 421™ anti-human CD366 (Tim-3), PerCP/Cyanine5.5 anti-human CD366 (Tim-3), Brilliant Violet 605™ anti-human CD366 (Tim-3), PE/Cyanine7 anti-human CD366 (Tim-3), FITC anti-human CD366 (Tim-3), Brilliant Violet 570™ anti-human CD366 (Tim-3), Brilliant Violet 711™ anti-human CD366 (Tim-3), Spark PLUS UV395™ anti-human CD366 (Tim-3) (Flexi-Fluor™), TotalSeq™-B0169 anti-human CD366 (Tim-3), APC anti-human CD366 (Tim-3), Spark PLUS B550™ anti-human CD366 (Tim-3), TotalSeq™-C0169 anti-human CD366 (Tim-3), Ultra-LEAF™ Purified anti-human CD366 (Tim-3), PE/Fire™ 744 anti-human CD366 (Tim-3) Antibody, Biotin anti-human CD366 (Tim-3), TotalSeq™-A0169 anti-human CD366 (Tim-3), PE/Cyanine5 anti-human CD366 (Tim-3), Brilliant Violet 750™ anti-human CD366 (Tim-3) Antibody

Product Data



Th1-polarized human peripheral blood mononuclear cells were stained with anti-human CD4 (clone RPA-T4) APC and anti-human CD366 (Tim-3) (clone F38-2E2) Brilliant Violet 570™ (left) or mouse IgG1, κ Brilliant Violet 570™ isotype control (right).

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