

Brilliant Violet 785™ anti-human CD366 (Tim-3) Antibody

Catalog# / Size	345031 / 25 tests 345032 / 100 tests
Clone	F38-2E2
Regulatory Status	RUO
Workshop	HCDM 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 785™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 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 785™ is a trademark of Sirigen Group Ltd.

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

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Excitation Laser	Violet Laser (405 nm)
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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	1. Hastings WD, <i>et al.</i> 2009. <i>Eur. J. Immunol.</i> 39:2492. (Costim)
(PubMed link indicates BioLegend citation)	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)
Product Citations	1. Bezverbnaya K, <i>et al.</i> 2021. <i>Cytotherapy.</i> 23:820. PubMed
	2. Rha MS, <i>et al.</i> 2021. <i>Immunity.</i> 54:44. PubMed
	3. Gibellini L, <i>et al.</i> 2020. <i>EMBO Mol Med.</i> 12:e13001. PubMed
	4. Eyquem J, <i>et al.</i> 2017. <i>Nature.</i> 543:113-117. PubMed
	5. Chow MT <i>et al.</i> 2019. <i>Immunity.</i> 50(6):1498-1512. PubMed
	6. Amor C, <i>et al.</i> 2020. <i>Nature.</i> 583:127. PubMed
	7. Carnevale J, <i>et al.</i> 2022. <i>Nature.</i> 609:174. PubMed
	8. Vitanza NA, <i>et al.</i> 2021. <i>Nature Medicine.</i> PubMed
	9. Kacherovsky N, <i>et al.</i> 2019. <i>Nat Biomed Eng.</i> 0.66875. PubMed
	10. Schoutrop E, <i>et al.</i> 2022. <i>Oncoimmunology.</i> 11:2093426. PubMed
	11. Leclercq G, <i>et al.</i> 2022. <i>J Immunother Cancer.</i> 10:. PubMed
	12. Khuzwayo S, <i>et al.</i> 2021. <i>Front Immunol.</i> 12:631410. PubMed
	13. Kim Y, <i>et al.</i> 2021. <i>Oncol Lett.</i> 1.022222222. PubMed
	14. Mathewson ND, <i>et al.</i> 2021. <i>Cell.</i> 184(5):1281-1298.e26. PubMed
	15. Karlsson J, <i>et al.</i> 2020. <i>Nat Commun.</i> 1.773611111. PubMed
	16. Choe JH, <i>et al.</i> 2021. <i>Sci Transl Med.</i> 13:. PubMed
RRID	AB_2565832 (BioLegend Cat. No. 345031) AB_2565833 (BioLegend Cat. No. 345032)

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

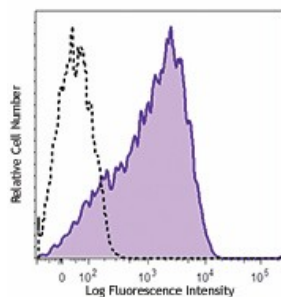
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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

Product Data



PHA-stimulated (three days) human peripheral blood lymphocytes were stained with anti-human CD366 (clone F38-2E2) Brilliant Violet 785™ (filled histogram) or mouse IgG1, κ Brilliant Violet 785™ (open histogram).

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