

Brilliant Violet 605™ anti-human CD366 (Tim-3) Antibody

Catalog# / Size	345017 / 25 tests 345018 / 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 605™ 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 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ 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: costimulation¹ (clone 2E2 has been shown to enhance T-cell receptor mediated activation and cytokine secretion) and blocking^{2,3}.

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)

Product Citations

1. Myers JA, *et al.* 2022. JCI Insight. :. [PubMed](#)
2. van Montfoort N, *et al.* 2018. *Cell.* 175:1744. [PubMed](#)
3. Asada S, *et al.* 2018. *Nat Commun.* 9:2733. [PubMed](#)
4. Hackstein CP, *et al.* 2022. *Nat Commun.* 13:7472. [PubMed](#)
5. Guo X, *et al.* 2021. *J Immunother Cancer.* 9:. [PubMed](#)
6. Gaudreau PO, *et al.* 2020. *J Thorac Oncol.* . [PubMed](#)
7. Alwis R, *et al.* 2016. *J Virol.* 90: 4771 - 4779. [PubMed](#)

RRID AB_2562194 (BioLegend Cat. No. 345017)
AB_2563859 (BioLegend Cat. No. 345018)

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. *J. Exp. Med.* 205:2699.
2. Zhu C, *et al.* 2005. *Nat. Immunol.* 6:1245.
3. Wang F, *et al.* 2009. *Immunobiology* 214:342.

Gene ID [84868](#)

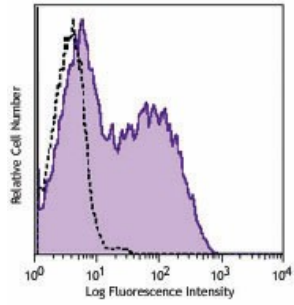
Related Protocols

[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), PE/Fire™ 810 anti-human CD366 (Tim-3), PE/Fire™ 640 anti-human CD366 (Tim-3)

Product Data



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with anti-human (Tim-3, clone F38-2E2) Brilliant Violet 605™ (top) or mouse IgG1, κ Brilliant Violet 605™ isotype control (bottom).

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