

APC anti-human CD366 (Tim-3) Antibody

Catalog# / Size	345011 / 25 tests 345012 / 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 APC 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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Red Laser (633 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)	<ol style="list-style-type: none">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)
Product Citations	<ol style="list-style-type: none">1. Iwahori K, <i>et al.</i> 2019. <i>Sci Rep.</i> 2.205555556. PubMed2. Muliaditan T, <i>et al.</i> 2021. <i>Cell Rep Med.</i> 2:100457. PubMed3. Chen M, <i>et al.</i> 2021. <i>Cancers (Basel).</i> 13:. PubMed4. Halim L, <i>et al.</i> 2022. <i>Front Immunol.</i> 13:836549. PubMed5. Zhou Y, <i>et al.</i> 2017. <i>Front Cell Infect Microbiol.</i> 7:457. PubMed

6. Beatson RE, *et al.* 2021. Cell Rep Med. 2:100473. [PubMed](#)
7. Kwon M, *et al.* 2020. Clin Cancer Res. 1644:26. [PubMed](#)
8. Zhang D, *et al.* 2020. Oncoimmunology. 9:1744921. [PubMed](#)
9. Lucas C, *et al.* 2021. Nature. Online ahead of print. [PubMed](#)
10. Lam AJ, *et al.* 2021. Cell Reports. 36(5):109494. [PubMed](#)
11. Li G, *et al.* 2021. Front Immunol. 12:800928. [PubMed](#)
12. Zou F, *et al.* 2021. Mol Ther. 29:1794. [PubMed](#)
13. Picard E, *et al.* 2019. Oncoimmunology. 8:e1527498. [PubMed](#)
14. Zhang J, *et al.* 2022. Nature. 609:369. [PubMed](#)
15. Alishah K, *et al.* 2021. J Transl Med. 19:482. [PubMed](#)
16. Kotetsu Y, *et al.* 2021. Biomedicines. 9:. [PubMed](#)
17. Li P, *et al.* 2022. Front Oncol. 12:917400. [PubMed](#)
18. RY H, *et al.* 2016. Oncoimmunology. 6:e1249561. [PubMed](#)
19. Li N, *et al.* 2020. Oncoimmunology. 9:1824643. [PubMed](#)
20. Saraiva DP, *et al.* 2018. Front Immunol. 2:184027778. [PubMed](#)
21. Wei J, *et al.* 2019. J Immunother Cancer. 7:209. [PubMed](#)
22. Saygin C, *et al.* 2021. Leukemia. 35:3406. [PubMed](#)
23. Stempin CC, *et al.* 2021. Cancers (Basel). 13:. [PubMed](#)
24. McGowan J, *et al.* 2019. Front Immunol. 10:1553. [PubMed](#)

RRID AB_2561717 (BioLegend Cat. No. 345011)
 AB_2561718 (BioLegend Cat. No. 345012)

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	<ol style="list-style-type: none"> 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

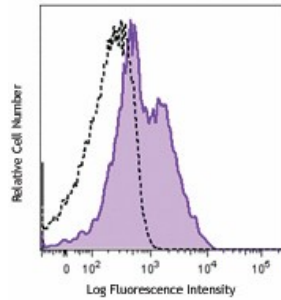
Related Protocols

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

Product Data



Th1-polarized cells from human peripheral blood mononuclear cells were stained with anti-human Tim-3 (clone F38-2E2) APC (filled histogram) or mouse IgG1, κ APC isotype control (open histogram).

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