

PerCP/Cyanine5.5 anti-mouse CD366 (Tim-3) Antibody

Catalog# / Size	119717 / 25 µg 119718 / 100 µg
Clone	RMT3-23
Regulatory Status	RUO
Other Names	T cell immunoglobulin and mucin domain containing 3 protein, hepatitis virus cellular receptor 2, CD366
Isotype	Rat IgG2a, 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 Th1 lymphocytes and CD11b ⁺ macrophages. 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	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
Concentration	0.2 mg/ml
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 =0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for relevant formats) include: <i>in vitro</i> ¹ and <i>in vivo</i> ² blocking of Tim-3, and immunohistochemical staining of frozen sections ² . The Ultra-LEAF™ purified antibody (Endotoxin <0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 119731-119736).
Additional Product Notes	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions.
Application References	1. Nakae S, <i>et al.</i> 2007. <i>Blood</i> 110(7):2565-8. (FC, Block) 2. Oikawa T, <i>et al.</i> 2006. <i>J. Immunol.</i> 177(7):4281-7. (FC, Block, IHC)
(PubMed link indicates BioLegend citation)	
Product Citations	1. Tomaru U <i>et al.</i> 2019. <i>Cell reports.</i> 26(3):639-651 . PubMed 2. Naing A <i>et al.</i> 2019. <i>Cell reports.</i> 26(5):1242-1257 . PubMed

- Li J, *et al.* 2018. *Immunity*. 49:178. [PubMed](#)
- Dong L, *et al.* 2021. *Cancer Cell*. . [PubMed](#)

RRID AB_2571934 (BioLegend Cat. No. 119717)
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Antigen Details

Structure	Transmembrane protein containing immunoglobulin domain and mucin-like domain; predicted molecular weight 31 kD; can exist as a soluble form lacking mucin and transmembrane domains
Distribution	Expressed on activated Th1 lymphocytes and CD11b ⁺ macrophages
Function	May play a role in the development of immune responses and the development of Th1-mediated responses
Ligand/Receptor	Putative ligand on resting CD4 ⁺ lymphocytes
Cell Type	Macrophages, Th1
Biology Area	Immunology, Inhibitory Molecules
Molecular Family	CD Molecules, Immune Checkpoint Receptors
Antigen References	<ol style="list-style-type: none">Sabatos CA, <i>et al.</i> 2003. <i>Nat. Immunol.</i> 4:1102.Sanchez-Fueyo A, <i>et al.</i> 2003. <i>Nat. Immunol.</i> 4:1102.Kuchroo VK, <i>et al.</i> 2003. <i>Nat. Rev. Immunol.</i> 3:454.Mooney L, <i>et al.</i> 2002. <i>Nature</i> 415:536.
Gene ID	171285

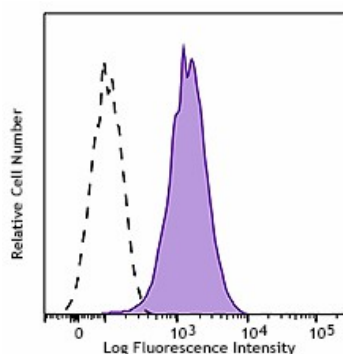
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD366 (Tim-3), PE anti-mouse CD366 (Tim-3), APC anti-mouse CD366 (Tim-3), PE/Cyanine7 anti-mouse CD366 (Tim-3), Biotin anti-mouse CD366 (Tim-3), PerCP/Cyanine5.5 anti-mouse CD366 (Tim-3), GolnVivo™ Purified anti-mouse CD366 (Tim-3), Brilliant Violet 605™ anti-mouse CD366 (Tim-3), Brilliant Violet 421™ anti-mouse CD366 (Tim-3), Brilliant Violet 711™ anti-mouse CD366 (Tim-3), Brilliant Violet 785™ anti-mouse CD366 (Tim-3), TotalSeq™-A0003 anti-mouse CD366 (Tim-3), Ultra-LEAF™ Purified anti-mouse CD366 (Tim-3), APC/Fire™ 750 anti-mouse CD366 (Tim-3), TotalSeq™-C0003 anti-mouse CD366 (Tim-3), TotalSeq™-B0003 anti-mouse CD366 (Tim-3), Alexa Fluor® 647 anti-mouse CD366 (Tim-3), PE/Fire™ 810 anti-mouse CD366 (Tim-3), PE/Dazzle™ 594 anti-mouse CD366 (Tim-3)

Product Data



Mouse Tim-3 transfected cells were stained with CD366 (Clone RMT3-23) PerCP/Cyanine5.5 (filled histogram), or rat IgG2a, ? PerCP/Cyanine5.5 isotype control (open histogram).

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