

Biotin anti-mouse CD366 (Tim-3) Antibody

Catalog# / Size	119720 / 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 biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. 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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
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).
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)	
RRID	AB_2571936 (BioLegend Cat. No. 119720)

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"> 1. Sabatos CA, <i>et al.</i> 2003. <i>Nat. Immunol.</i> 4:1102. 2. Sanchez-Fueyo A, <i>et al.</i> 2003. <i>Nat. Immunol.</i> 4:1102. 3. Kuchroo VK, <i>et al.</i> 2003. <i>Nat. Rev. Immunol.</i> 3:454. 4. Mooney L, <i>et al.</i> 2002. <i>Nature</i> 415:536.
Gene ID	171285

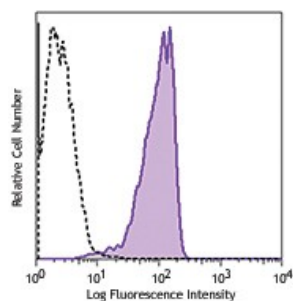
Related Protocols

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

Product Data



Mouse Tim-3 transfected cells were stained with biotinylated anti-mouse CD366 (Tim-3, clone RMT3-23) followed by SAV PE (filled histogram) or biotinylated rat IgG2a, κ isotype control followed by SAV PE (open histogram).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587