

## Brilliant Violet 421™ anti-mouse CD365 (Tim-1) Antibody

<b>Catalog# / Size</b>	119507 / 50 µg
<b>Clone</b>	RMT1-4
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	T cell immunoglobulin and mucin domain containing protein-1, T cell and airway phenotype regulator (Tapr), hepatitis virus cellular receptor 1, CD365
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	CD365 (Tim-1) is a transmembrane protein also known as T cell immunoglobulin and mucin domain containing protein-1 and hepatitis virus cellular receptor 1. It is developmentally expressed at high levels in the blastocyst. Tim-1 is expressed on activated CD4 <sup>+</sup> lymphocytes especially on Th <sub>2</sub> cells and has been implicated to play a critical role in the development of atopic disease and other Th <sub>2</sub> -biased immune responses. Tim-1 is hepatitis A virus receptor in humans. Tim-4 is the endogenous ligand of Tim-1. The interaction of Tim-1 and Tim-4 is involved in costimulation of T cell proliferation. Tim-1 is an endogenous ligand for LMIR5/CD300b.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. 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.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
<b>Excitation Laser</b>	Violet Laser (405 nm)

## Application References

(PubMed link indicates BioLegend citation)

1. Meyers JH, *et al.* 2005. *Nat. Immunol.* 6:455.
2. Nakae S, *et al.* 2007. *Blood* doi:10.1182/blood-2006-11-058800.
3. Yamanishi Y, *et al.* 2010. *J. Exp. Med.* 207:1501. (FC)
4. Namavari A, *et al.* 2012. *Invest Ophthalmol Vis Sci.* 53:4575. [PubMed](#).

RRID

AB\_3662394 (BioLegend Cat. No. 119507)

## Antigen Details

<b>Structure</b>	Transmembrane protein containing immunoglobulin domain and mucin-like domain; predicted molecular weight 33 kD.
<b>Distribution</b>	Developmentally regulated; highly expressed in embryonic development in blastocysts. Expressed on activated CD4 <sup>+</sup> lymphocytes, especially Th2 cell lines.
<b>Function</b>	Binds hepatitis virus, may play a critical role in immune responses and the development of atopic diseases (in particular airway hyperreactivity).
<b>Ligand/Receptor</b>	Binds hepatitis A virus in humans, Tim-4, LMIR5/CD300b
<b>Cell Type</b>	T cells, Th2
<b>Biology Area</b>	Immunology, Inhibitory Molecules
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. McIntire JJ, <i>et al.</i> 2001. <i>Nature Immunol.</i> 2:1109.</li><li>2. Kuchroo VK, <i>et al.</i> 2003. <i>Nat. Rev. Immunol.</i> 3:454.</li><li>3. Wills-Karp M, <i>et al.</i> 2001. <i>Nat. Rev. Immunol.</i> 1:69.</li><li>4. Meyers JH, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6(5):455.</li></ol>
<b>Gene ID</b>	<a href="#">171283</a>

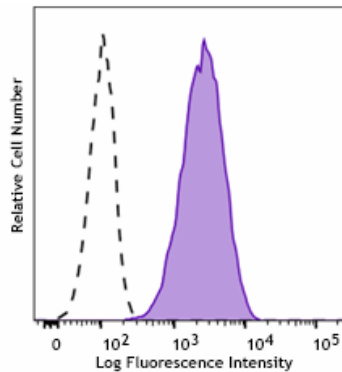
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse CD365 (Tim-1), Biotin anti-mouse CD365 (Tim-1), PE anti-mouse CD365 (Tim-1), Brilliant Violet 421™ anti-mouse CD365 (Tim-1)

## Product Data



Mouse Tim-1 transfected cells were stained with anti-mouse CD365 (Tim-1) (clone RMT1-4) Brilliant Violet 421™ (filled histogram) or rat IgG2b, κ Brilliant Violet 421™ isotype control (open histogram)

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