

## Spark Red™ 718 anti-human CD366 (Tim-3) Antibody

<b>Catalog# / Size</b>	364817 / 25 tests 364818 / 100 tests
<b>Clone</b>	A18087E
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	T cell immunoglobulin and mucin domain containing protein 3, hepatitis virus cellular receptor 2, CD366
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Recombinant human Tim-3
<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 Spark Red™ 718 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<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>	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 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.  * Spark Red™ 718 has a maximum excitation of 697 nm and a maximum emission of 711 nm.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>RRID</b>	AB_3683392 (BioLegend Cat. No. 364817) AB_3683392 (BioLegend Cat. No. 364818)

### Antigen Details

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<b>Structure</b>	Transmembrane protein containing immunoglobulin domain and mucin-like domain; can exist as a soluble form lacking mucin and transmembrane domains
<b>Distribution</b>	Activated T cells, preferentially on Th1 cells, monocytes, dendritic cells

<b>Function</b>	CD366 plays a role in regulating macrophage activation, checkpoint inhibitor, T cell apoptosis and immune tolerance
<b>Ligand/Receptor</b>	Galectin-9 and PtdSer
<b>Molecular Family</b>	CD Molecules, Immune Checkpoint Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Hafler DA and Kuchroo V. 2008. <i>J Exp Med.</i> 205:2699.</li> <li>2. Zhu C, <i>et al.</i> 2005. <i>Nat Immunol.</i> 6:1245.</li> <li>3. Wang F, <i>et al.</i> 2009. <i>Immunobiology.</i> 214:342.</li> </ol>
<b>Gene ID</b>	<a href="#">84868</a>

## Related Protocols

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

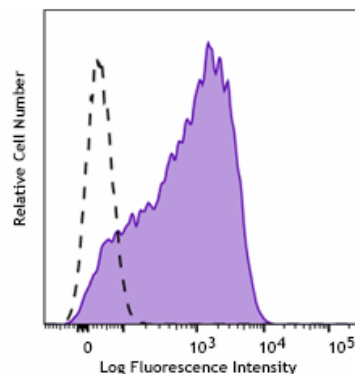
## Other Formats

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Purified anti-human CD366 (Tim-3), APC anti-human CD366 (Tim-3), PE anti-human CD366 (Tim-3), Brilliant Violet 421™ anti-human CD366 (Tim-3), PE/Fire™ 744 anti-human CD366 (Tim-3), APC/Cyanine7 anti-human CD366 (Tim-3) Antibody, Spark PLUS B550™ anti-human CD366 (Tim-3), KIRAVIA Blue 520™ anti-human CD366 (Tim-3) Antibody, Spark Red™ 718 anti-human CD366 (Tim-3), PE/Cyanine7 anti-human CD366 (Tim-3), Spark YG™ 581 anti-human CD366 (Tim-3) (Flexi-Fluor™), Spark YG™ 593 anti-human CD366 (Tim-3) (Flexi-Fluor™) Antibody, Spark NIR™ 685 anti-human CD366 (Tim-3) (Flexi-Fluor™) Antibody, StarBright UltraViolet 740 anti-human CD366 (Tim-3)

## Product Data

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PHA-activated (3 days) human peripheral blood lymphocytes were stained with anti-human CD366 (Tim-3) (clone A18087E) Spark Red™ 718 (filled histogram) or mouse IgG1, κ Spark Red™ 718 isotype control (open histogram).

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