

Datasheet: MCA5790PE

Description:	RAT ANTI MOUSE TIM-3:RPE
Specificity:	TIM-3
Other names:	T-CELL IMMUNOGLOBULIN MUCIN 3
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	RMT3-23
Isotype:	IgG2a
Quantity:	100 TESTS

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 1ml distilled water						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
RPE 488nm laser	496	578					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide (NaN ₃)						
Stabilisers	1% Bovine Serum Albumin 5% Sucrose						

Immunogen	Tim-3-Ig, consisting of amino acids 1-191 of mouse Tim-3, coupled with the Fc portion of mouse IgG2a.
External Database Links	<p>UniProt: Q8VIM0 Related reagents</p> <p>Entrez Gene: 171285 Havcr2 Related reagents</p>
Synonyms	Tim3, Timd3
Fusion Partners	Lymph node cells from immunised SD rats were fused with cells of the P3U1 myeloma cell line.
Specificity	<p>Rat anti Mouse Tim-3 antibody, clone RMT3-23 recognizes mouse T-cell immunoglobulin mucin 3, a transmembrane glycoprotein and member of the immunoglobulin superfamily, preferentially expressed by differentiated CD4+ Th1 cells and CD8+ Tc1 (cytotoxic) cells, but not by CD4+ Th2 cells or CD8+ Tc2 cells.</p> <p>Tim-3 acts as a negative regulator of Th1-mediated inflammatory diseases including GVHD, type I diabetes, and EAE (experimental autoimmune encephalomyelitis), promotes immunological tolerance, and is a receptor for galectin-9, shown to induce cell death of Th1 cells <i>in vitro</i>. Tim-3 is also involved in the regulation of macrophage activation, acts as a phagocytic receptor, and has been shown to recognize apoptotic cells via the IgV domain.</p> <p>Rat anti Mouse Tim-3 antibody, clone RMT3-23 significantly inhibits the efficient phagocytosis of apoptotic cells by peritoneal exudate Mac1+ cells (Nakayama et al. 2009).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Oikawa, T. <i>et al.</i> (2006) Preferential involvement of Tim-3 in the regulation of hepatic CD8+ T cells in murine acute graft-versus-host disease. J Immunol. 177 (7): 4281-7. Nakayama, M. <i>et al.</i> (2009) Tim-3 mediates phagocytosis of apoptotic cells and cross-presentation. Blood. 113 (16): 3821-30.
Further Reading	1. Freeman, G.J. <i>et al.</i> (2010) TIM genes: a family of cell surface phosphatidylserine receptors that regulate innate and adaptive immunity. Immunol Rev. 235 (1): 172-89.
Storage	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #20487 available at:
20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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