

## Datasheet: MCA156PE

<b>Description:</b>	MOUSE ANTI RAT MHC CLASS I RT1Ac:RPE
<b>Specificity:</b>	MHC CLASS I RT1Ac
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-27
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Rat		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1.0% Bovine Serum Albumin		
	5% Sucrose		

<b>Immunogen</b>	PHA activated rat lymphocytes.
<b>RRID</b>	AB_323984
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Rat MHC Class I RT1Ac antibody, clone OX-27</b> recognizes a polymorphic determinant (c haplotype) of rat Class I MHC Antigen (RT-1A).
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Hikita, N. <i>et al.</i> (1997) Use of topical FK506 in a corneal graft rejection model in Lewis rats. <a href="#">Invest Ophthalmol Vis Sci. 38 (5): 901-9.</a></li> <li>Sharland, A. <i>et al.</i> (1999) Evidence that apoptosis of activated T cells occurs in spontaneous tolerance of liver allografts and is blocked by manipulations which break tolerance. <a href="#">Transplantation. 68:1736-45.</a></li> <li>Huang, W.C. <i>et al.</i> (2010) Vascularized bone grafts within composite tissue allotransplants can autogenerate tolerance through mixed chimerism with partial myeloablative conditioning: an experimental study in rats. <a href="#">Plast Reconstr Surg. 125 (4): 1095-103.</a></li> <li>Wang Y <i>et al.</i> (2012) Role of donor-specific regulatory T cells in long-term acceptance of rat hind limb allograft. <a href="#">PLoS One. 7 (8): e43825.</a></li> <li>Liu, Q. <i>et al.</i> (2013) Heart allograft tolerance induced and maintained by vascularized hind-limb transplant in rats. <a href="#">Clin Dev Immunol. 2013: 483856.</a></li> <li>Zhu, H. <i>et al.</i> (2015) Rat model of heterotopic toe allotransplantation. <a href="#">J Surg Res. 199 (2): 707-17.</a></li> <li>Gu, C. <i>et al.</i> (2016) Triptolide Reduces the Required Dose of Tacrolimus by Attenuating Inflammation, Enhancing Immunosuppression, and Increasing Donor Chimerism in a Heterotopic Hindlimb Transplantation Model. <a href="#">Plast Reconstr Surg. 138 (6): 1243-1253.</a></li> <li>von Websky, M.W. <i>et al.</i> (2016) Recombinant HLA-G as Tolerogenic Immunomodulant in Experimental Small Bowel Transplantation. <a href="#">PLoS One. 11 (7): e0158907.</a></li> <li>Schweizer, R. <i>et al.</i> (2020) Adipose-derived stromal cell therapy combined with a short course nonmyeloablative conditioning promotes long-term graft tolerance in vascularized composite allotransplantation. <a href="#">Am J Transplant. 20 (5): 1272-84.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>This product should be stored undiluted.</p> <p>DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA156PE">https://www.bio-rad-antibodies.com/SDS/MCA156PE</a> 20487

## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:RPE \(MCA1210PE\)](#)

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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://bio-rad-antibodies.com/datasheets)  
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