

Datasheet: MCA156PE

BATCH NUMBER 171906

Description:	MOUSE ANTI RAT MHC CLASS I RT1Ac:RPE
Specificity:	MHC CLASS I RT1Ac
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX-27
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 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.

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

Immunogen	PHA activated rat lymphocytes.
RRID	AB_323984
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Rat MHC Class I RT1Ac antibody, clone OX-27 recognizes a polymorphic determinant (c haplotype) of rat Class I MHC Antigen (RT-1A).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Hikita, N. <i>et al.</i> (1997) Use of topical FK506 in a corneal graft rejection model in Lewis rats. Invest Ophthalmol Vis Sci. 38 (5): 901-9. 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. Transplantation. 68:1736-45. 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. Plast Reconstr Surg. 125 (4): 1095-103. Wang Y <i>et al.</i> (2012) Role of donor-specific regulatory T cells in long-term acceptance of rat hind limb allograft. PLoS One. 7 (8): e43825. Liu, Q. <i>et al.</i> (2013) Heart allograft tolerance induced and maintained by vascularized hind-limb transplant in rats. Clin Dev Immunol. 2013: 483856. Zhu, H. <i>et al.</i> (2015) Rat model of heterotopic toe allotransplantation. J Surg Res. 199 (2): 707-17. 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. Plast Reconstr Surg. 138 (6): 1243-1253. von Websky, M.W. <i>et al.</i> (2016) Recombinant HLA-G as Tolerogenic Immunomodulant in Experimental Small Bowel Transplantation. PLoS One. 11 (7): e0158907. 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. Am J Transplant. 20 (5): 1272-84.
Storage	<p>This product is shipped at ambient temperature.</p> <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>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA156PE

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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