

Datasheet: MCA156PE

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		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide 1.0% Bovine Serum Albumin 5% Sucrose		
Immunogen	PHA activated rat lymphocytes.		
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 10⁶ cells in 100ul.

- References**
1. Jefferies, W.A. *et al.* (1985) Analysis of lymphopoietic stem cells with a monoclonal antibody to the rat transferrin receptor. [Immunology. 54 \(2\): 333-41.](#)
 2. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. [Immunology 42: 593-600.](#)
 3. Huang, W.C. *et al.* (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.](#)
 4. Hikita, N. *et al.* (1997) Use of topical FK506 in a corneal graft rejection model in Lewis rats. [Invest Ophthalmol Vis Sci. 38 \(5\): 901-9.](#)
 5. Sharland, A. *et al.* (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.](#)
 6. Zhu H *et al.* (2015) Rat model of heterotopic toe allotransplantation. [J Surg Res. pii: S0022-4804\(15\)00283-8.](#)
 7. Liu, Q. *et al.* (2013) Heart allograft tolerance induced and maintained by vascularized hind-limb transplant in rats. [Clin Dev Immunol. 2013: 483856.](#)
 8. Wang Y *et al.* (2012) Role of donor-specific regulatory T cells in long-term acceptance of rat hind limb allograft. [PLoS One. 7 \(8\): e43825.](#)
 9. von Websky, M.W. *et al.* (2016) Recombinant HLA-G as Tolerogenic Immunomodulator in Experimental Small Bowel Transplantation. [PLoS One. 11 \(7\): e0158907.](#)
 10. Gu, C. *et al.* (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.](#)
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Storage Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

This product should be stored undiluted.

DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10075 available at: 10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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