Datasheet: MCA156PE

BATCH NUMBER INN1610

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.
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	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 autocreate 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 Immunomodulant 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. 11. Schweizer, R. *et al.* (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	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.

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 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:RPE (MCA1210PE)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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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