Datasheet: MCA156R

Description:	MOUSE ANTI RAT MHC CLASS I RT1Ac
Specificity:	MHC CLASS I RT1Ac
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-27
Isotype:	IgG2a
Quantity:	0.25 mg

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	▪			1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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 - liquid
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
Carrier Free	Yes

Approx. Protein Concentrations	Isotype concentration 1.0 mg/ml
Immunogen	PHA activated rat lymphocytes.
RRID	AB_323877
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. 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. 2. 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. 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. 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. 5. Liu, Q. *et al.* (2013) Heart allograft tolerance induced and maintained by vascularized hind-limb transplant in rats. Clin Dev Immunol. 2013: 483856. 6. Zhu, H. *et al.* (2015) Rat model of heterotopic toe allotransplantation. J Surg Res. 199 (2): 707-17. 7. 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. 8. von Websky, M.W. *et al.* (2016) Recombinant HLA-G as Tolerogenic Immunomodulant in Experimental Small Bowel Transplantation. PLoS One. 11 (7): e0158907. 9. 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	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA156R 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Goat Anti Mouse IgG (STAR70...)	FITC

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA1210)

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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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