

Datasheet: MCA156GA

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:	0.1 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 - 1/100
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 .
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.
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. <i>et al.</i> (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. <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. 4. 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. 5. 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. 6. Zhu H <i>et al.</i> (2015) Rat model of heterotopic toe allotransplantation. J Surg Res. pii: S0022-4804(15)00283-8. 7. 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. 8. 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. 9. von Websky, M.W. <i>et al.</i> (2016) Recombinant HLA-G as Tolerogenic Immunomodulator in Experimental Small Bowel Transplantation. PLoS One. 11 (7): e0158907. 10. 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.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA1210\)](#)

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
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