

Datasheet: MCA156F

Description:	MOUSE ANTI RAT MHC CLASS I RT1Ac:FITC
Specificity:	MHC CLASS I RT1Ac
Format:	FITC
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	■			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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1.0% Bovine Serum Albumin		
Approx. Protein Concentrations	Isotype concentration 0.1 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. *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.](#)

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. This product is photosensitive and should be protected from light.

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 #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA1210F\)](#)

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