

Datasheet: MCA95F

Description:	MOUSE ANTI RAT MHC CLASS II RT1B:FITC
Specificity:	MHC CLASS II RT1B
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	F17-23-2
Isotype:	IgG1
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 - 1/5

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
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

Immunogen	Partially purified rat MHC antigens.
RRID	AB_844561
Fusion Partners	Spleen cells of immunized BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	<p>Mouse anti Rat MHC Class II RT1B antibody, clone F17-23-2 recognizes the rat RT1B MHC class II antigen, reacting with haplotypes a, I and n expressed on rat strains including DA, LEW, and BN.</p> <p>Mouse anti Rat MHC Class II RT1B antibody, clone F17-23-2 is routinely tested in flow cytometry on DA rat splenocytes.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Hart DN & Fabre JW (1981) Localization of MHC antigens in long surviving rat renal allografts: probable implication of passenger leukocytes in graft adaptation. Transplant Proc. 13 (1 Pt 1): 95-9. 2. Hart, D.N. & Fabre, J.W. (1981) Major histocompatibility complex antigens in rat kidney, ureter, and bladder. Localization with monoclonal antibodies and demonstration of Ia-positive dendritic cells. Transplantation. 31 (5): 318-25. 3. Keller, R. <i>et al.</i> (1988) Modulation of major histocompatibility complex (MHC) expression by interferons and microbial agents. Independent regulation of MHC class II expression and induction of tumoricidal activity in bone marrow-derived mononuclear phagocytes. Scand J Immunol. 28 (1): 113-21. 4. Lassner, F. <i>et al.</i> (1989) Cellular mechanisms of rejection and regeneration in peripheral nerve allografts. Transplantation. 48 (3): 386-92. 5. Mirenda, V. <i>et al.</i> (2004) Modified dendritic cells coexpressing self and allogeneic major histocompatibility complex molecules: an efficient way to induce indirect pathway regulation. J Am Soc Nephrol. 15 (4): 987-97. 6. Steiniger, B. <i>et al.</i> (1990) Identical pattern of acute rejection after isolated islet and vascularized whole-pancreas transplantation in the rat. Am J Pathol. 137 (1): 93-102. 7. Brandis, A. <i>et al.</i> (1998) Time-dependent expression of donor- and host-specific major histocompatibility complex class I and II antigens in allogeneic dopamine-rich macro- and micrografts: comparison of two different grafting protocols. Acta Neuropathol. 95 (1): 85-97. 8. Krasinskas, A.M. <i>et al.</i> (2000) Replacement of graft-resident donor-type antigen presenting cells alters the tempo and pathogenesis of murine cardiac allograft rejection. Transplantation. 70 (3): 514-21. 9. Comer, R.M. <i>et al.</i> (2002) Effect of administration of CTLA4-Ig as protein or cDNA on corneal allograft survival. Invest Ophthalmol Vis Sci. 43 (4): 1095-103.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this</p>

product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA1209F\)](#)

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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