

## Datasheet: MCA95F

<b>Description:</b>	MOUSE ANTI RAT MHC CLASS II RT1B:FITC
<b>Specificity:</b>	MHC CLASS II RT1B
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	F17-23-2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Rat		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Partially purified rat MHC antigens.		
<b>RRID</b>	AB_844561		
<b>Fusion Partners</b>	Spleen cells of immunized BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.		

<b>Specificity</b>	<p><b>Mouse anti Rat MHC Class II RT1B antibody, clone F17-23-2</b> recognizes the rat RT1B MHC class II antigen, reacting with haplotypes a, l 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>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Hart DN &amp; Fabre JW (1981) Localization of MHC antigens in long surviving rat renal allografts: probable implication of passenger leukocytes in graft adaptation. <a href="#">Transplant Proc. 13 (1 Pt 1): 95-9.</a></li> <li>Hart, D.N. &amp; 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. <a href="#">Transplantation. 31 (5): 318-25.</a></li> <li>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. <a href="#">Scand J Immunol. 28 (1): 113-21.</a></li> <li>Lassner, F. <i>et al.</i> (1989) Cellular mechanisms of rejection and regeneration in peripheral nerve allografts. <a href="#">Transplantation. 48 (3): 386-92.</a></li> <li>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. <a href="#">J Am Soc Nephrol. 15 (4): 987-97.</a></li> <li>Steiniger, B. <i>et al.</i> (1990) Identical pattern of acute rejection after isolated islet and vascularized whole-pancreas transplantation in the rat. <a href="#">Am J Pathol. 137 (1): 93-102.</a></li> <li>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. <a href="#">Acta Neuropathol. 95 (1): 85-97.</a></li> <li>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. <a href="#">Transplantation. 70 (3): 514-21.</a></li> <li>Comer, R.M. <i>et al.</i> (2002) Effect of administration of CTLA4-Ig as protein or cDNA on corneal allograft survival. <a href="#">Invest Ophthalmol Vis Sci. 43 (4): 1095-103.</a></li> </ol>
<b>Storage</b>	<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 product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

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

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