

## Datasheet: MCA94R BATCH NUMBER 150341

Description:	MOUSE ANTI RAT MHC CLASS I RT1A
Specificity:	MHC CLASS I RT1A
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F16-4-4
lsotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	-			1/100 - 1/200		
	Immunohistology - Frozen	-					
	Immunohistology - Paraffin			•			
	ELISA						
	Immunoprecipitation						
	Western Blotting						
	Where this antibody has	not been	tested for	use in a particular teo	chnique this does not		
	necessarily exclude its us the antibody for use in the		•				
Target Species	Rat	-					
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by supernatant	affinity ch	nromatogr	aphy on Protein G fro	m tissue culture		
Buffer Solution	Phosphate buffered salin	e					
Preservative Stabilisers	0.09% Sodium Azide						
Carrier Free	Yes						

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Partially purified rat MHC antigens.
RRID	AB_323205
Fusion Partners	Spleen cells of immunised BALB/c mice were fused with cells from the NS-1 mouse myeloma line.
Specificity	<b>Mouse anti Rat MHC Class I RT1A antibody, clone F16-4-4</b> recognizes the rat RT1A MHC class I antigen binding to a monomorphic epitope expressed by all rat strains, although strains of haplotype c more weakly.
	Mouse anti Rat MHC Class I RT1A antibody, clone F16-4-4 is routinely tested in flow cytometry on rat splenocytes.
References	<ol> <li>Hart, D.N.J. and Fabre, J.W. (1981) Major histocompatibility complex antigens in rat kidney, ureter, and bladder. Localization with monoclonal antibodies and demonstration of la-positive dendritic cells <u>Transplantation. 31: 318-325</u>.</li> <li>Hart, D.N.J. and Fabre, J.W. (1981) Problems in the use of erythrocytes for RT1.A typing studies, probably due to quantitative differences in RT1.A antigen expression in different strains. <u>Transplantation Proceedings. 13: 1329-1322</u>.</li> <li>Mclellan, A. D. <i>et al.</i> (1999) Induction of dendritic cell costimulator molecule expression is suppressed by T cells in the absence of antigen-specific signalling: role of cluster formation, CD40 and HLA-class II for dendritic cell activation <u>Immunology. 98:171-180</u>.</li> <li>Tuncel J <i>et al.</i> (2014) Natural polymorphisms in Tap2 influence negative selection and CD4:CD8 lineage commitment in the rat. <u>PLoS Genet. 10 (2): e1004151</u>.</li> <li>Hart, D.N. &amp; Fabre, J.W. (1981) Demonstration and characterization of la-positive dendritic cells in the interstitial connective tissues of rat heart and other tissues, but not brain. <u>J Exp Med. 154 (2): 347-61</u>.</li> <li>Carayon K <i>et al.</i> (2011) Proteolipidic composition of exosomes changes during reticulocyte maturation. <u>J Biol Chem. 286 (39): 34426-39</u>.</li> </ol>
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.
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/MCA94R 10040

## **Related Products**

## **Recommended Secondary Antibodies**

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

### **Recommended Negative Controls**

### MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-r	ad.com	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 'M369219:200529'

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