

Datasheet: MCA94R

Description:	MOUSE ANTI RAT MHC CLASS I RT1A
Specificity:	MHC CLASS I RT1A
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F16-4-4
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	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 technique this does not necessarily exclude its use in such procedures. 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 supernatant	A from tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide	
Carrier Free	Yes	
Approx. Protein	lgG concentration 1.0 mg/ml	

Concentrations				
Immunogen	Partially purified rat MHC antigens.			
RRID	AB_323205			
Fusion Partners	Spleen cells of immunized BALB/c mice were fused with cells from the NS-1 mouse myeloma line.			
Specificity	Mouse anti Rat MHC Class I RT1A antibody, clone F16-4-4 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	 Hart, D.N. & 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> 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> 			
	 3. 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</u>. 31: 318-325. 4. 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 Immunology. 98:171-180. 5. Carayon K <i>et al.</i> (2011) Proteolipidic composition of exosomes changes during reticulocyte maturation. J Biol Chem. 286 (39): 34426-39. 6. Tuncel J <i>et al.</i> (2014) Natural polymorphisms in Tap2 influence negative selection and CD4:CD8 lineage commitment in the rat. PLoS Genet. 10 (2): e1004151.			
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.			
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.			

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 Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

Goat Anti Mouse IgG (STAR76...) RPE

Goat Anti Mouse IgG (STAR70...) FITC

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M434360:250219'

Printed on 19 Feb 2025

© 2025 Bio-Rad Laboratories Inc | Legal | Imprint