

Datasheet: MCA50R

BATCH NUMBER 1212

Description:	MOUSE ANTI RAT MHC CLASS II RT1D
Specificity:	MHC CLASS II RT1D
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-17
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
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. 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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Rat spleen glycoproteins.
RRID	AB_323208
Fusion Partners	Spleen cells from immunized mice were fused with cells from the mouse X63.Ag8.653 myeloma cell line .
Specificity	<p>Mouse anti Rat MHC Class II RT1D antibody, clone OX-17 recognizes a monomorphic determinant on rat RT1D, the rat homologue of mouse I-E, present on all rat strains.</p> <p>Mouse anti Rat MHC Class II RT1D antibody, clone OX-17 does not cross-react with rat RT1B or mouse I-E antigen (Fukumoto <i>et al.</i> 1982).</p> <p>Mouse anti Rat MHC Class II RT1D antibody, clone OX-17 is routinely tested in flow cytometry on 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. Fukumoto, T. <i>et al.</i> (1982) Mouse monoclonal antibodies against rat major histocompatibility antigens. Two Ia antigens and expression of Ia and class I antigens in rat thymus. Eur J Immunol. 12 (3): 237-43. 2. Romaniuk, A. <i>et al.</i> (1995) Rejection of cartilage formed by transplanted allogeneic chondrocytes: evaluation with monoclonal antibodies. Transpl Immunol. 3 (3): 251-7. 3. Volovitz, I. <i>et al.</i> (2011) Split immunity: immune inhibition of rat gliomas by subcutaneous exposure to unmodified live tumor cells. J Immunol. 187: 5452-62. 4. Zeinstra, E. <i>et al.</i> (2006) Simvastatin inhibits interferon-gamma-induced MHC class II up-regulation in cultured astrocytes. J Neuroinflammation. 3:16. 5. Milićević, N.M. <i>et al.</i> (2005) T cells are required for the peripheral phase of B-cell maturation. Immunology. 116: 308-17. 6. Wildner, G. and Diedrichs-Möhring, M. (2003) Autoimmune uveitis induced by molecular mimicry of peptides from rotavirus, bovine casein and retinal S-antigen. Eur J Immunol. 33: 2577-87. 7. Sawa, K. and Mochizuki, M. (1997) Effects of bucillamine and antigen-presenting cells in experimental autoimmune uveitis in rats. Jpn J Ophthalmol. 41: 388-95. 8. Gurbuxani, S. <i>et al.</i> (2001) Selective depletion of inducible HSP70 enhances immunogenicity of rat colon cancer cells. Oncogene. 20: 7478-85. 9. Volovitz, I. <i>et al.</i> (2010) T cell vaccination induces the elimination of EAE effector T cells: analysis using GFP-transduced, encephalitogenic T cells. J Autoimmun. 35: 135-44. 10. Zilka, N. <i>et al.</i> (2009) Human misfolded truncated tau protein promotes activation of microglia and leukocyte infiltration in the transgenic rat model of tauopathy. J Neuroimmunol. 209: 16-25. 11. Ghiringhelli, F. <i>et al.</i> (2005) Tumor cells convert immature myeloid dendritic cells into TGF-beta-secreting cells inducing CD4+CD25+ regulatory T cell proliferation. J Exp Med. 202: 919-29.

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/MCA50R>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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