Datasheet: MCA50R

BATCH NUMBER 1702

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	**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. Mouse anti Rat MHC Class II RT1D antibody, clone OX-17 does not cross-react with rat RT1B or mouse I-E antigen (Fukumoto *et al.* 1982). Mouse anti Rat MHC Class II RT1D antibody, clone OX-17 is routinely tested in flow cytometry on rat splenocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Fukumoto, T. *et al.* (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. *et al.* (1995) Rejection of cartilage formed by transplanted allogeneic chondrocytes: evaluation with monoclonal antibodies. Transpl Immunol. 3 (3): 251-7. 3. Volovitz, I. *et al.* (2011) Split immunity: immune inhibition of rat gliomas by subcutaneous exposure to unmodified live tumor cells. J Immunol. 187: 5452-62. 4. Zeinstra, E. *et al.* (2006) Simvastatin inhibits interferon-gamma-induced MHC class II up-regulation in cultured astrocytes. J Neuroinflammation. 3:16. 5. Milićević, N.M. *et al.* (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. *et al.* (2001) Selective depletion of inducible HSP70 enhances immunogenicity of rat colon cancer cells. Oncogene. 20: 7478-85. 9. Volovitz, I. *et al.* (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. *et al.* (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. *et al.* (2005) Tumor cells convert immature myeloid dendritic cells into TGF-beta-secreting cells inducing CD4+CD25+ regulatory T cell proliferatio 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)

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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