

Datasheet: MCA50GA

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:	0.1 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.

	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
Fusion Partners	Spleen cells from immunised 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 10⁶ 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: 237-243.](#)
2. Romaniuk, A. *et al.* (1995) Rejection of cartilage formed by transplanted allogeneic chondrocytes: evaluation with monoclonal antibodies. [Transplant. Immunol 3: 251-257.](#)
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 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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

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