

Datasheet: MCA2686PE

Description:	MOUSE ANTI MHC CLASS II H-2I-Ab/s:RPE
Specificity:	MHC CLASS II H-2I-Ab/s
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX-3
Isotype:	IgG1
Quantity:	100 TESTS

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	▪			Neat

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		
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by ion exchange chromatography		
Buffer Solution	Phosphate buffered saline		

Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin 5% Sucrose
Immunogen	Rat thymocyte membrane glycoproteins.
RRID	AB_931776
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells from the NS1 mouse myeloma cell line.
Specificity	<p>Mouse anti MHC Class II H-2I-Ab/s antibody, clone OX-3 recognizes a polymorphic determinant of the rat RT1B MHC class II antigen, reacting with haplotypes u and I. The literature reports reactivity with Lewis, Wistar and AO strain rats but not BN, DA or PVG/c strains. Mouse anti MHC Class II H-2I-Ab/s antibody, clone OX-3 is useful for distinguishing RT1B positive cells from different rat strains, e.g. for recognising cells of donor origin in bone marrow reconstituted radiation chimaeras.</p> <p>Mouse anti MHC Class II H-2I-Ab/s antibody, clone OX-3 also cross reacts with mouse strains of the H-2 haplotypes b and s. Analysis of recombinant mouse strains has mapped the OX-3 determinant to the H-2I-A region.</p> <p>The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In mice, this complex is referred to as the H-2 region. In rats, this complex is referred to as the RT1 region.</p> <p>This product is routinely tested in flow cytometry on Lewis 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. McMaster, W.R. & Williams, A.F. (1979) Identification of Ia glycoproteins in rat thymus and purification from rat spleen. Eur J Immunol. 9 (6): 426-33. 2. McMaster, W.R. & Williams, A.F. (1979) Monoclonal antibodies to Ia antigens from rat thymus: cross reactions with mouse and human and use in purification of rat Ia glycoproteins. Immunol Rev. 47: 117-37. 3. Barclay, A.N. & Mayrhofer, G. (1981) Bone marrow origin of Ia-positive cells in the medulla rat thymus. J Exp Med. 153 (6): 1666-71. 4. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. Immunology 42: 593-600. 5. Zhang, J. <i>et al.</i> (1997) Expression of major histocompatibility complex molecules in rodent retina. Immunohistochemical study. Invest Ophthalmol Vis Sci. 38 (9): 1848-57. 6. Hahm, K.B. <i>et al.</i> (2000) Loss of TGF-beta signaling contributes to autoimmune pancreatitis. J Clin Invest. 105 (8): 1057-65.
Storage	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p>

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	6 months from date of despatch
------------------	--------------------------------

Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
--------------------------------------	--

Regulatory	For research purposes only
-------------------	----------------------------

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)

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
----------------------------------	---	------------------	---	---------------	---

From March 15, 2021, we will no longer supply printed datasheets with our products.
Look out for updates on how to access your digital version at [bio-rad-antibodies.com](https://www.bio-rad-antibodies.com)

'M374381:201030'

Printed on 09 Feb 2021