

Datasheet: MCA2687PEB

Description:	MOUSE ANTI MHC CLASS II H-2I-Ak/s:RPE
Specificity:	MHC CLASS II H-2I-Ak/s
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX-6
Isotype:	IgG1
Quantity:	500 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 - 1/10

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.								
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized								
Reconstitution	Reconstitute with 5.0 ml distilled water								
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
RPE 488nm laser	496	578							
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant								
Buffer Solution	Phosphate buffered saline								
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin 5% Sucrose								
Immunogen	Rat thymocyte membrane glycoproteins.								
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-Ak/s antibody, clone OX-6 recognizes a monomorphic determinant of the rat RT1B MHC class II antigen present on B lymphocytes, dendritic cells, some macrophages and certain epithelial cells.</p> <p>Mouse anti MHC Class II H-2I-Ak/s antibody, clone OX-6 does not react with the rat BDIX strain due to a defect in RT1B expression (Male, D. K. et al.).</p> <p>Mouse anti MHC Class II H-2I-Ak/s antibody, clone OX-6 also cross reacts with a polymorphic determinant on mouse strains of the H-2 haplotypes k and s. Analysis of recombinant mouse strains has mapped the OX-6 determinant to the H-2I-A region (McMaster & Williams 1979) and (Maleef et al. 1987).</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 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. Fernandez, J.L. & Weeks, M. (1986) Genetic monitoring of inbred strains of mice using monoclonal antibodies to major histocompatibility haplotypes and lymphocyte alloantigens. Lab Anim. 20 (4): 293-7. 3. Charteris, D.G. & Lightman, S.L. (1993) <i>In vivo</i> lymphokine production in experimental autoimmune uveoretinitis. Immunology. 78 (3): 387-92. 4. Whiteland, J.L. et al. (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J Histochem Cytochem. 43 (3): 313-20. 5. McKechnie, N.M. et al. (1997) Immunization with the cross-reactive antigens Ov39 from <i>Onchocerca volvulus</i> and hr44 from human retinal tissue induces ocular pathology and activates retinal microglia. J Infect Dis. 176 (5): 1334-43. 6. Male, D.K. et al. (1987) Serological evidence for a defect in RT1.B (I-A) expression by the BDIX rat strain. J Immunogenet. 14 (6): 301-12. 7. Meyer zu Hörste, G. et al. (2011) Quinpramine ameliorates rat experimental autoimmune neuritis and redistributes MHC class II molecules. PLoS One. 6(6): e21223. 8. Zhang, M. et al. (2015) The distinct distributions of immunocompetent cells in rat dentin pulp after pulpotomy. Anat Rec (Hoboken). 298 (4): 741-9. 9. Ledreux, A. et al. (2016) Detrimental effects of a high fat/high cholesterol diet on memory and hippocampal markers in aged rats Behavioural Brain Research. Jun 22 [Epub ahead of print]
Storage	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p> <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.</p>
Shelf Life	12 months from date of reconstitution.
Health And Safety	Material Safety Datasheet documentation #10075 available at:

Information 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 \(MCA1209PE\)](#)

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'M324169:180727'

Printed on 11 Sep 2018

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