

Datasheet: MCA2687FT

Description:	MOUSE ANTI MHC CLASS II H-2I-Ak/s:FITC
Specificity:	MHC CLASS II H-2I-Ak/s
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	OX-6
Isotype:	lgG1
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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	Reacts with: Mouse
Reactivity	N.B. Antibody reactivity and working conditions may vary between

**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

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Product Form	Purified IgG conju	ugated to Fluorescein Isoth	niocyanate Isomer 1
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG preparations	ared by affinity chromatog	raphy on Protein G f
Buffer Solution	Phosphate buffer	ed saline	
Preservative Stabilisers	0.09% Sodium Az	zide	

1%	Bovine	Serum	Δlhu	min

IgG concentration 0.1 mg/ml  Rat thymocyte membrane glycoproteins.  AB_931779
AB_931779
Spleen cells from immunised Balb/c mice were fused with cells from the NS1 mouse myeloma cell line.
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.
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 et al. 1987).
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 (Male et al. 1987).
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.
Mouse anti MHC Class II H-2I-Ak/s antibody, clone OX-6 is routinely tested in flow cytometry on rat splenocytes.
Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<ol> <li>McMaster, W.R. &amp; Williams, A.F. (1979) Identification of la glycoproteins in rat thymus and purification from rat spleen. <u>Eur J Immunol. 9 (6): 426-33.</u></li> <li>Fernandez, J.L. &amp; Weeks, M. (1986) Genetic monitoring of inbred strains of mice using monoclonal antibodies to major histocompatibility haplotypes and lymphocyte alloantigens. <u>Lab Anim. 20 (4): 293-7.</u></li> <li>Charteris, D.G. &amp; Lightman, S.L. (1993) <i>In vivo</i> lymphokine production in experimental</li> </ol>
autoimmune uveoretinitis. Immunology. 78 (3): 387-92.

6. Male, D.K. et al. (1987) Serological evidence for a defect in RT1.B (I-A) expression by

activates retinal microglia. J Infect Dis. 176 (5): 1334-43.

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

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

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 #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
Regulatory	For research purposes only

## Related Products

### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

America

Fax: +1 919 878 3751 Email: antibody\_sales\_us@bio-rad.com

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