

Datasheet: MCA2687A647

Description:	MOUSE ANTI MHC CLASS II H-2I-Ak/s:Alexa Fluor® 647	
Specificity:	MHC CLASS II H-2I-Ak/s	
Format:	ALEXA FLUOR® 647	
Product Type:	Monoclonal Antibody	
Clone:	OX-6	
Isotype:	lgG1	
Quantity:	100 TESTS/1ml	

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.biorad-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

Stabilisers

Reacts with: Mouse

0.09% Sodium Azide

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.	satione from the originate	570. T 10000 T0101 t0 T0	noronoco maioat
Product Form	Purified IgG conjug			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	Alexa Fluor®647	650	665	_
Preparation	Purified IgG prepar supernatant	red by affinity chromatog	raphy on Protein G fr	om tissue cultur
Buffer Solution	Phosphate buffered	d saline		
Preservative	0 09% Sodium Azid	de		

1%	Bovine	Serum	Δlhu	min

	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	Rat thymocyte membrane glycoproteins.
RRID	AB_931787
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells from the NS1 mouse myeloma cell line.
Specificity	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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 McMaster, W.R. & 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> Fernandez, J.L. & 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> Charteris, D.G. & Lightman, S.L. (1993) <i>In vivo</i> lymphokine production in experimental autoimmune uveoretinitis. <u>Immunology. 78 (3): 387-92.</u> Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. <u>J Histochem Cytochem. 43 (3): 313-20.</u>
	5. McKechnie, N.M. <i>et al.</i> (1997) Immunization with the cross-reactive antigens Ov39 from <i>Onchocerca volvulus</i> and hr44 from human retinal tissue induces ocular pathology and

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

activates retinal microglia. <u>J Infect Dis. 176 (5): 1334-43.</u>

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

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

Regulatory For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 647 (MCA1209A647)

America

North & South Tel: +1 800 265 7376 Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700

Europe

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

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