

Datasheet: MCA2687A488

Description:	MOUSE ANTI MHC CLASS II H-2I-Ak/s:Alexa Fluor® 488
Specificity:	MHC CLASS II H-2I-Ak/s
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	OX-6
Isotype:	lgG1
Quantity:	100 TESTS/1ml

Product Details

Applications	ations This product has been reported to work in the following applications. This inform derived from testing within our laboratories, peer-reviewed publications or pers					
	information. For general protocol recommendations, please visit <u>www.bio-</u>					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			Neat - 1/10	
	Where this antibody ha	as not been te	ested for ι	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 Alexa Fluor® 488 - liquid					
Max Ex/Em	Fluorophore	Excitation M	ax (nm)	Emission Max (nm))	
	Alexa Fluor®488	495		519		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered sa	line				
Preservative Stabilisers	0.09% Sodium Azide					

	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	Rat thymocyte membrane glycoproteins.
RRID	AB_931783
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 (<u>Male <i>et al.</i> 1987</u>).
	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 (<u>McMaster & Williams 1979</u>) and (<u>Male <i>et al.</i> 1987</u>).
	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</u> <u>Histochem Cytochem. 43 (3): 313-20.</u> 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 activates retinal microglia. <u>J Infect Dis. 176 (5): 1334-43.</u> Male, D.K. <i>et al.</i> (1987) Serological evidence for a defect in RT1.B (I-A) expression by the BDIX rat strain. <u>J Immunogenet. 14 (6): 301-12.</u>

	 7. Meyer zu Hörste, G. <i>et al.</i> (2011) Quinpramine ameliorates rat experimental autoimmune neuritis and redistributes MHC class II molecules. <u>PLoS One. 6(6): e21223.</u> 8. Zhang, M. <i>et al.</i> (2015) The distinct distributions of immunocompetent cells in rat dentin pulp after pulpotomy. <u>Anat Rec (Hoboken). 298 (4): 741-9.</u> 9. Ledreux, A. <i>et al.</i> (2016) Detrimental effects of a high fat/high cholesterol diet on memory and hippocampal markers in aged rats <u>Behavioural Brain Research. Jun 22</u> [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	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Acknowledgements Health And Safety Information	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 (MCA1209A488)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

'M367306:200529'

Printed on 29 Oct 2020

© 2020 Bio-Rad Laboratories Inc | Legal | Imprint