

# Datasheet: MCA372G BATCH NUMBER 158425

Description:	MOUSE ANTI RAT CD4 (DOMAIN 1)
Specificity:	CD4 (DOMAIN 1)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-38
lsotype:	lgG2a
Quantity:	0.25 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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			1/100 - 1/200
	Immunohistology - Frozen	-			
	Immunohistology - Paraffin				
	ELISA			•	
	Immunoprecipitation	-			
Western Blotting					
	Where this antibody has necessarily exclude its us a guide only. It is recomm system using appropriate	se in such nended th	procedu	res. Suggested workin er titrates the antibody	ng dilutions are given as
Target Species Product Form	Rat Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein G				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide				
Carrier Free	Yes				

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	MLR generated rat T cells.
External Database Links	UniProt:         P05540       Related reagents         Entrez Gene:         24932       Cd4       Related reagents
RRID	AB_322838
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<b>Mouse anti Rat CD4 (Domain 1) antibody, clone OX-38</b> recognizes the rat CD4 cell surface antigen, also known as W3/25 antigen or T-cell surface antigen T4/Leu-3. CD4 is a 430 amino acid ~55 kDa single pass type I transmembrane glycoprotein expressed by T helper cells, monocytes and macrophages.
	Clone OX-38 competes for binding with Mouse anti Rat CD4 antibody, clone W3/25 ( <u>MCA55R</u> ).
	Mouse anti Rat CD4 (Domain 1) antibody, clone OX-38 has been utilized successfully for the <i>in vitro</i> depletion of T helper cells ( <u>Pusic <i>et al.</i> 2015</u> ).
References	<ol> <li>Jefferies, W.A. <i>et al.</i> (1985) Authentic T helper CD4 (W3/25) antigen on rat peritoneal macrophages. J Exp Med. 162 (1): 117-27.</li> <li>Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. Immunology. 42 (4): 593-600.</li> <li>Thomas, M.L. &amp; Green, J.R. (1983) Molecular nature of the W3/25 and MRC OX-8 marker antigens for rat T lymphocytes: comparisons with mouse and human antigens. Eur J Immunol. 13 (10): 855-8.</li> <li>Hall, B.M. <i>et al.</i> (1998) Anti-CD4 monoclonal antibody-induced tolerance to MHC-incompatible cardiac allografts maintained by CD4+ suppressor T cells that are not dependent upon IL-4. J Immunol. 161 (10): 5147-56.</li> <li>Kitazawa, Y.<i>et al.</i> (2015) A novel multicolor immunostaining method using ethynyl deoxyuridine for analysis of <i>in situ</i> immunoproliferative response. Histochem Cell Biol. 144 (3): 195-208.</li> <li>Pusic, A.D. <i>et al.</i> (2015) Spreading depression transiently disrupts myelin via interferon-gamma signaling. Exp Neurol. 264: 43-54.</li> <li>Ueta, H. <i>et al.</i> (2018) Single blood transfusion induces the production of donor-specific alloantibodies and regulatory T cells mainly in the spleen. Int Immunol. 30 (2): 53-67.</li> </ol>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

	short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.			
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA372G 10040			
Regulatory	For research purposes only			

## **Related Products**

### **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>				
Goat Anti Mouse IgG (STAR76)	RPE			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,			
	DyLight®650, DyLight®680, DyLight®800,			
	FITC, HRP			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>			
Goat Anti Mouse IgG (STAR77)	HRP			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
Recommended Negative Controls				

#### **Recommended Negative Controls**

MOUSE IgG2a NEGATIVE CONTROL (MCA1210)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M384020:210513'

### Printed on 18 Jan 2024

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