

Datasheet: MCA340GA

Description:	MOUSE ANTI RAT CD45RA (B CELLS ONLY)		
Specificity:	CD45RA (B CELLS ONLY)		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	OX-33		
lsotype:	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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			1/50 - 1/100	
	Immunohistology - Frozen	-			1/100 - 1/500	
	Immunohistology - Paraffin (1)	-				
	ELISA					
	Immunoprecipitation			•		
	Western Blotting			•		
	Where this product 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 product for use in their own system using appropriate negative/positive controls. (1)PLP fixation is recommended for optimal results, see <u>Whiteland et al.</u> for details					
Target Species	Rat					
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					
Buffer Solution	Phosphate buffered salin	ie.				
Preservative Stabilisers	0.09% Sodium Azide					

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified Rat spleen L-CA
External Database Links	UniProt: <u>P04157</u> <u>Related reagents</u>
	Entrez Gene: <u>24699</u> Ptprc <u>Related reagents</u>
RRID	AB_566776
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U mouse myeloma cell line.
Specificity	Mouse anti Rat CD45RA antibody, clone OX-33 is directed against a high molecular weight band of the leucocyte common antigen. MRC OX-33 only labels B-cells among thoracic duct lymphocytes with little labeling in bone marrow and none on thymocytes (<u>Barclay <i>et al.</i> 1987</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 NcCall, M.N. <i>et al.</i> (1992) Expression of soluble isoforms of rat CD45. Analysis by electron microscopy and use in epitope mapping of anti-CD45R monoclonal antibodies. Immunology. <i>76</i>: 310-<i>7</i>. Cho, W.S. <i>et al.</i> (2012) NiO and Co3O4 nanoparticles induce lung DTH-like responses and alveolar lipoproteinosis. <u>Eur Respir J. 39 (3): 546-57.</u> Trama, A.M. <i>et al.</i> (2012) Lymphocyte phenotypes in wild-caught rats suggest potential mechanisms underlying increased immune sensitivity in post-industrial environments. <u>Cell Mol Immunol. 9 (2): 163-74.</u> Han, X. <i>et al.</i> (2013) <i>Porphyromonas gingivalis</i> infection-associated periodontal bone resorption is dependent on receptor activator of NF-κB ligand. <u>Infect Immun. 81 (5): 1502-9.</u> Marolda, R. <i>et al.</i> (2013) Differential targeting of immune-cells by Pixantrone in experimental myasthenia gravis. <u>J Neuroimmunol. 258 (1-2): 41-50.</u> Okamura, T. <i>et al.</i> (2013) Synergistic effects of prolonged warm ischemia and donor age on the immune response following donation after cardiac death kidney transplantation. <u>Surgery. 153 (2): 249-61.</u> Stefanski, V. <i>et al.</i> (2013) Differential effect of severe and moderate social stress on blood immune and endocrine measures and susceptibility to collagen type II arthritis in male rats. <u>Brain Behav Immun. 29: 156-65.</u> Pilatz, A. <i>et al.</i> (2015) Experimental <i>Escherichia coli</i> epididymitis in rats: assessment of

	testicular involvement in a long-term follow-up. <u>Andrologia. 47</u> 10. Pongratz, G. <i>et al.</i> (2015) A sustained high fat diet for two y IL-1 beta in ageing Wistar rats. <u>Immun Ageing. 12: 12.</u>	
	 Lu, J.H. <i>et al.</i> (2015) GABAergic neurons in cerebellar inter cellular and humoral immunity via hypothalamic and sympathet Neuroimmunol. 283: 30-8. 	•
	12. Williamson, L.L. <i>et al.</i> (2016) Got worms? Perinatal exposu persistent immune sensitization and cognitive dysfunction induce Brain Behav Immun. 51: 14-28.	•
	13. Ogawa, B. <i>et al.</i> (2019) Strain differences in histopathologic tissues of SD and F344 rats in a T cell-dependent antibody res cyclophosphamide. <u>J Toxicol Pathol. 32 (3): 143-54.</u>	• •
	 14. Chang, J.C. <i>et al.</i> (2019) Early Immune Response to Acute a Rat Model of Lung Transplantation. <u>Exp Clin Transplant. 17 (</u> 15. Dabrowska, S. <i>et al.</i> (2019) Human bone marrow mesench 	1): 84-92.
	extracellular vesicles attenuate neuroinflammation evoked by for <u>Neuroinflammation. 16 (1): 216.</u> 16. Cąkała-Jakimowicz, M. & Puzianowska-Kuznicka, M. (2022)	
	the Lymph Node Response to Skin Infection with Saprophytic S epidermidis. <u>Biomedicines. 10 (5): 1021.</u>	, .
Storage	This product is shipped at ambient temperature. It is recommen-20°C on receipt. When thawed, aliquot the sample as needed short term use (up to 4 weeks) and store the remaining aliquots	. Keep aliquots at 2-8°C for
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended.	antibody. Storage in
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/MCA340GA 10040	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

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

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR13...) HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

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-ra	ad.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 M390808:211004'

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