

Datasheet: MCA340FT BATCH NUMBER 166946

Description:	MOUSE ANTI RAT CD45RA:FITC
Specificity:	CD45RA (B CELLS ONLY)
Format:	FITC
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	•			Neat - 1/10	
	•	use in such p mmended that	rocedur the use	es. Suggested wor titrates the antibo	technique this does not king dilutions are given as dy for use in their own	
Target Species	Rat					
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)	Emission Max (nm))	
	FITC	490		525	_	
Preparation	Purified IgG prepared I supernatant	by affinity chro	omatogr	aphy on Protein A f	rom tissue culture	
Buffer Solution	Phosphate buffered sa	lline				
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum A	Albumin				
Approx. Protein Concentrations	IgG concentration 0.1	mg/ml				

Immunogen	Purified Rat spleen L-CA
External Database Links	UniProt: P04157 Related reagents Entrez Gene: 24699 Ptprc Related reagents
RRID	AB_322582
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	This antibody does not always give a clear separation between positives and negatives in some cell preparations. If users find this to be the case we recommend the use of R. Phycoerythrin conjugated reagent MCA340PE which generally exhibits a peak of higher mean fluorescence. Use 10ul of the suggested working dilutions to label 10 ⁶ cells in 100ul.
References	 McCall, 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. 76: 310-7. Cho, W.S. <i>et al.</i> (2012) NiO and Co3O4 nanoparticles induce lung DTH-like responses and alveolar lipoproteinosis. Eur Respir J. 39 (3): 546-57. 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. Cell Mol Immunol. 9 (2): 163-74. Han, X. <i>et al.</i> (2013) <i>Porphyromonas gingivalis</i> infection-associated periodontal bone resorption is dependent on receptor activator of NF-kB ligand. Infect Immun. 81 (5): 1502-9. Marolda, R. <i>et al.</i> (2013) Differential targeting of immune-cells by Pixantrone in experimental myasthenia gravis. J Neuroimmunol. 258 (1-2): 41-50. Okamura, T. <i>et al.</i> (2013) Phenotypic Characterization of LEA Rat: A New Rat Model of Nonobese Type 2 Diabetes. J Diabetes Res. 2013: 986462. Denecke, C. <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. Surgery. 153 (2): 249-61. 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. Brain Behav Immun. 29: 156-65.

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	13. Ogawa, B. <i>et al.</i> (2019) Strain differences in histopathologi tissues of SD and F344 rats in a T cell-dependent antibody rescyclophosphamide. J Toxicol Pathol. 32 (3): 143-54.	•
	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.
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	16. Cąkała-Jakimowicz, M. & Puzianowska-Kuznicka, M. (2022) the Lymph Node Response to Skin Infection with Saprophytic <i>s</i> <i>epidermidis</i> . <u>Biomedicines</u> . 10 (5): 1021.	
Storage	This product is shipped at ambient temperature. It is recomme -20°C on receipt. When thawed, aliquot the sample as needed short term use (up to 4 weeks) and store the remaining aliquot	. Keep aliquots at 2-8°C for
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended. This product is photos protected from light.	
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA340FT 10041	
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	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-ra	ad.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 'M423490:231017'

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