

# Datasheet: MCA53GA BATCH NUMBER 158684

Description:	on: MOUSE ANTI RAT CD45RC	
Specificity:	CD45RC	
Format:	Purified	
Product Type:	Monoclonal Antibody	
Clone:	OX-22	
Isotype:	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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	<b>Not Determined</b>	Suggested Dilution
Flow Cytometry	•			1/100
Immunohistology - Frozen	•			1/100 - 1/1000
Immunohistology - Paraffin (1)	•			1/100 - 1/1000
ELISA			•	
Immunoprecipitation			•	
Western Blotting			•	

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.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.

Target Species	Rat	
Product Form	Purified IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein G supernatant	G from tissue culture
Buffer Solution	Phosphate buffered saline	

Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Phytohaemagglutinin (PHA) -activated rat lymphocytes
External Database Links	UniProt: P04157 Related reagents
	Entrez Gene:  24699 Ptprc Related reagents
RRID	AB_566779
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells from the NS1 mouse myeloma cell line.
Specificity	<b>Mouse anti Rat CD45RC antibody, clone OX-22</b> recognizes rat CD45RC, the high molecular weight form of the leucocyte common antigen. The antigen is found on B cells, approximately 50% of bone marrow cells, all CD8+ve T cells, but splits CD4+ve T cells into two populations, CD4+CD45RC <sup>high</sup> (Th1-like) and CD4+CD45RC <sup>low</sup> (Th2-like).
	This product is routinely tested in flow cytometry on rat splenocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol> <li>Arthur, R.P. &amp; Mason, D. (1986) T cells that help B cell responses to soluble antigen are distinguishable from those producing interleukin 2 on mitogenic or allogeneic stimulation. JExp Med. 163 (4): 774-86.</li> <li>Pelegrí, C. et al. (2001) Prevention of adjuvant arthritis by the W3/25 anti-CD4 monoclonal antibody is associated with a decrease of blood CD4(+)CD45RC(high) T cells. Clin Exp Immunol. 125 (3): 470-7.</li> <li>Mueller, C.A. et al. (2003) Spinal cord injury induces lesional expression of the proinflammatory and antiangiogenic cytokine EMAP II. J Neurotrauma. 20 (10): 1007-15.</li> <li>Fulgenzi, A. et al. (2004) Distribution of 99mTc-labeled lymphocytes in control and inflamed rats. Nucl Med Biol. 31 (5): 631-8.</li> <li>Schwab, J.M. et al. (2005) Spinal cord injury induces early and persistent lesional P2X4 receptor expression. J Neuroimmunol. 163 (1-2): 185-9.</li> <li>Schwab, J.M. et al. (2005) Spinal cord injury-induced lesional expression of the repulsive guidance molecule (RGM). Eur J Neurosci. 21 (6): 1569-76.</li> <li>Conrad, S. et al. (2005) Prolonged lesional expression of RhoA and RhoB following</li> </ol>

response: an effective strategy for attenuating chronic allograft nephropathy.

8. Herrero-Fresneda, I. et al. (2005) Reduction of postischemic immune inflammatory

spinal cord injury. J Comp Neurol. 487 (2): 166-75.

### Transplantation. 79 (2): 165-73.

- 9. Mueller, C.A. et al. (2007) Lesional expression of the endogenous angiogenesis inhibitor endostatin/collagen XVIII following traumatic brain injury (TBI). Exp Neurol. 208 (2): 228-37.
- 10. Adzemovic, M.V. et al. (2013) Imatinib ameliorates neuroinflammation in a rat model of multiple sclerosis by enhancing blood-brain barrier integrity and by modulating the peripheral immune response. PLoS One. 8 (2): e56586.
- 11. Xu, L. et al. (2019) Natural Diterpenoid Oridonin Ameliorates Experimental Autoimmune Neuritis by Promoting Anti-inflammatory Macrophages Through Blocking Notch Pathway. Front Neurosci. 13: 272.

#### **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: <a href="https://www.bio-rad-antibodies.com/SDS/MCA53GA">https://www.bio-rad-antibodies.com/SDS/MCA53GA</a> 10040
Regulatory	For research purposes only

# Related Products

## **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...) **RPE** Goat Anti Mouse IgG IgA IgM (STAR87...) HRP Goat Anti Mouse IgG (STAR76...) **RPE** Rabbit Anti Mouse IgG (STAR13...) **HRP** Goat Anti Mouse IgG (STAR70...) FITC

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...) **FITC** Goat Anti Mouse IgG (STAR77...) **HRP** 

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

**Recommended Negative Controls** 

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

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Email: antibody\_sales\_us@bio-rad.com

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