

Datasheet: MCA53EL

BATCH NUMBER 1702

Description:	MOUSE ANTI RAT CD45RC:Low Endotoxin
Specificity:	CD45RC
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	OX-22
Isotype:	IgG1
Quantity:	0.5 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/100 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
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 from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	None present

Stabilisers	
Carrier Free	Yes
Endotoxin Level	<0.01 EU/ug
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Phytohaemagglutinin (PHA) -activated rat lymphocytes
External Database Links	<p>UniProt: P04157 Related reagents</p> <p>Entrez Gene: 24699 Ptpnc Related reagents</p>
RRID	AB_2174432
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells from the NS1 mouse myeloma cell line.
Specificity	<p>Mouse anti Rat CD45RC antibody, clone OX-22 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^{high} (Th1-like) and CD4⁺CD45RC^{low} (Th2-like).</p> <p>This product is routinely tested in flow cytometry on rat splenocytes.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Arthur, R.P. & 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. J Exp Med. 163 (4): 774-86. 2. Pelegrí, C. <i>et al.</i> (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. 3. Mueller, C.A. <i>et al.</i> (2003) Spinal cord injury induces lesional expression of the proinflammatory and antiangiogenic cytokine EMAP II. J Neurotrauma. 20 (10): 1007-15. 4. Fulgenzi, A. <i>et al.</i> (2004) Distribution of 99mTc-labeled lymphocytes in control and inflamed rats. Nucl Med Biol. 31 (5): 631-8. 5. Schwab, J.M. <i>et al.</i> (2005) Spinal cord injury induces early and persistent lesional P2X4 receptor expression. J Neuroimmunol. 163 (1-2): 185-9. 6. Schwab, J.M. <i>et al.</i> (2005) Spinal cord injury-induced lesional expression of the repulsive guidance molecule (RGM). Eur J Neurosci. 21 (6): 1569-76. 7. Conrad, S. <i>et al.</i> (2005) Prolonged lesional expression of RhoA and RhoB following spinal cord injury. J Comp Neurol. 487 (2): 166-75. 8. Herrero-Fresneda, I. <i>et al.</i> (2005) Reduction of postischemic immune inflammatory

response: an effective strategy for attenuating chronic allograft nephropathy.

[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

Store at -20°C only.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. 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

Health And Safety Information

Material Safety Datasheet documentation #10162 available at: <https://www.bio-rad-antibodies.com/SDS/MCA53EL>
10162

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:Low Endotoxin \(MCA1209EL\)](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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