Datasheet: MCA53FT

BATCH NUMBER 165932

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

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			NEAT - 1/10

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.

Target Species

Rat

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

Immunogen	Phytohaemagglutinin (PHA) -activated rat lymphocytes
External Database Links	**UniProt:** P04157 Related reagents **Entrez Gene:** 24699 Ptprc Related reagents
RRID	AB_321431
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells from the NS1 mouse myeloma cell line.
Specificity	**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). This product is routinely tested in flow cytometry on rat splenocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^{6} cells in 100ul.
References	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. *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. 3. 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. 4. Fulgenzi, A. *et al.* (2004) Distribution of 99mTc-labeled lymphocytes in control and inflamed rats. Nucl Med Biol. 31 (5): 631-8. 5. Schwab, J.M. *et al.* (2005) Spinal cord injury induces early and persistent lesional P2X4 receptor expression. J Neuroimmunol. 163 (1-2): 185-9. 6. 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. 7. Conrad, S. *et al.* (2005) Prolonged lesional expression of RhoA and RhoB following spinal cord injury. J Comp Neurol. 487 (2): 166-75. 8. Herrero-Fresneda, I. *et al.* (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	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. This product is photosensitive and should be 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/MCA53FT 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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

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