Datasheet: MCA52A647

Description:	MOUSE ANTI RAT CD5:Alexa Fluor® 647
Specificity:	CD5
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	OX-19
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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 Alexa Fluor® 647 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665

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 0.05 mg/ml

Immunogen	Rat thymocyte glycoproteins.
External Database Links	**UniProt:** P51882 Related reagents **Entrez Gene:** 54236 Cd5 Related reagents
RRID	AB_324819
Fusion Partners	Spleen cells from an immunized BALB/c mouse were fused with cells from the NS1 mouse myeloma cell line.
Specificity	**Mouse anti Rat CD5 antibody, clone OX-19** recognizes the rat CD5 cell surface antigen, a 69kD glycoprotein expressed by T cells, thymocytes and a subset of B cells. Mouse anti Rat CD5 antibody, clone OX-19 has been reported as being suitable for use on periodate-lysine paraformaldehyde (PLP) fixed paraffin embedded tissue (Whiteland *et al.* 1995). Mouse anti Rat CD5 antibody, clone OX-19 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. Dallman, M.J. *et al.* (1982) The roles of host and donor cells in the rejection of skin allografts by T cell-deprived rats injected with syngeneic T cells. Eur J Immunol. 12 (6): 511-8. 2. Dallman, M.J. *et al.* (1984) MRC OX-19: a monoclonal antibody that labels rat T lymphocytes and augments in vitro proliferative responses. Eur J Immunol. 14 (3): 260-7. 3. Huitinga, I. *et al.* (1995) Macrophages in T cell line-mediated, demyelinating, and chronic relapsing experimental autoimmune encephalomyelitis in Lewis rats. Clin Exp Immunol. 100 (2): 344-51. 4. Whiteland, J.L. *et al.* (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J Histochem Cytochem. 43 (3): 313-20. 5. Kikuchi, H. *et al.* (2000) Severe proteinuria, sustained for 6 months, induces tubular epithelial cell injury and cell infiltration in rats but not progressive interstitial fibrosis. Nephrol Dial Transplant.15: 799-810. 6. Antus, B. *et al.* (2001) Contribution of androgens to chronic allograft nephropathy is mediated by dihydrotestosterone Kidney Int. 60: 1955-63. 7. Song, E. *et al.* (2002) Early application of Met-RANTES ameliorates chronic allograft nephropathy. Kidney Int. 61: 676-85. 8. Shiraishi, H. *et al.* (2002) Antibody binding to fas ligand attenuates inflammatory cell infiltration and cytokine secretion, leading to reduction of myocardial infarct areas and reperfusion injury. Lab Invest. 82: 1121-9. 9. de Vries, H.E. *et al.* (2002) Signal-regulatory protein alpha-CD47 interactions are

required for the transmigration of monocytes across cerebral endothelium. J Immunol. 168: 5832-9.
10. Moreno-Manzano, V. *et al.* (2003) Retinoids as a potential treatment for experimental puromycin-induced nephrosis Br J Pharmacol. 139: 823-31.
11. Antus, B. *et al.* (2005) Effects of progesterone and selective oestrogen receptor modulators on chronic allograft nephropathy in rats. Nephrol Dial Transplant. 20: 329-35.
12. Robichon, R. *et al.* (2005) Pig xenografts to the immunocompetent rat brain: Survival rates using distinct neurotoxic lesions in the nigrostriatal pathway and two rat strains. Exp Neurol. 194: 333-40.
13. Rusai, K. *et al.* (2008) Administration of interleukin-1 receptor antagonist ameliorates renal ischemia-reperfusion injury. Transpl Int. 21: 572-80.
14. Abrams, M.B. *et al.* (2009) Multipotent mesenchymal stromal cells attenuate chronic inflammation and injury-induced sensitivity to mechanical stimuli in experimental spinal cord injury. Restor Neurol Neurosci. 27: 307-21.
15. Pamukcu, O. *et al.* (2016) Anti-inflammatory role of obestatin in autoimmune myocarditis. Clin Exp Pharmacol Physiol. 43 (1): 47-55.

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
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA52A647 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 (MCA1209A647)

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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Printed on 12 Aug 2023