

Datasheet: MCA52R

BATCH NUMBER 171836

Description:	MOUSE ANTI RAT CD5
Specificity:	CD5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-19
Isotype:	IgG1
Quantity:	0.25 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	▪			1/25 - 1/100
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 particular system using appropriate negative/positive controls.

(1)The use of PLP fixation is recommended for optimal results.

Target Species	Rat
Product Form	Purified IgG - liquid
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

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Rat thymocyte glycoproteins.
External Database Links	<p>UniProt: P51882 Related reagents</p> <p>Entrez Gene: 54236 Cd5 Related reagents</p>
RRID	AB_2075316
Fusion Partners	Spleen cells from an immunized BALB/c mouse were fused with cells from the NS1 mouse myeloma cell line.
Specificity	<p>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.</p> <p>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).</p> <p>Mouse anti Rat CD5 antibody, clone OX-19 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"> Dallman, M.J. <i>et al.</i> (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. Dallman, M.J. <i>et al.</i> (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. Huitinga, I. <i>et al.</i> (1995) Macrophages in T cell line-mediated, demyelinating, and chronic relapsing experimental autoimmune encephalomyelitis in Lewis rats. Clin Exp Immunol. 100 (2): 344-51. Whiteland, J.L. <i>et al.</i> (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. Kikuchi, H. <i>et al.</i> (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. Antus, B. <i>et al.</i> (2001) Contribution of androgens to chronic allograft nephropathy is mediated by dihydrotestosterone Kidney Int. 60: 1955-63. Song, E. <i>et al.</i> (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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA52R
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#), [DyLight@650](#), [DyLight@680](#), [DyLight@800](#), [FITC](#), [HRP](#)

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

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

'M405571:220916'

Printed on 29 Jan 2026

© 2026 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)