

## Datasheet: MCA52R

**BATCH NUMBER 1609**

<b>Description:</b>	MOUSE ANTI RAT CD5
<b>Specificity:</b>	CD5
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-19
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Rat thymocyte glycoproteins.
External Database Links	<p><b>UniProt:</b>  <a href="#">P51882</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">54236</a>   Cd5   <a href="#">Related reagents</a></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><b>Mouse anti Rat CD5 antibody, clone OX-19</b> 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 (<a href="#">Whiteland et al. 1995</a>).</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 <sup>6</sup> cells in 100ul.
References	<ol style="list-style-type: none"> <li>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. <a href="#">Eur J Immunol. 12 (6): 511-8.</a></li> <li>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. <a href="#">Eur J Immunol. 14 (3): 260-7.</a></li> <li>Huitinga, I. <i>et al.</i> (1995) Macrophages in T cell line-mediated, demyelinating, and chronic relapsing experimental autoimmune encephalomyelitis in Lewis rats. <a href="#">Clin Exp Immunol. 100 (2): 344-51.</a></li> <li>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. <a href="#">J Histochem Cytochem. 43 (3): 313-20.</a></li> <li>Song, E. <i>et al.</i> (2002) Early application of Met-RANTES ameliorates chronic allograft nephropathy. <a href="#">Kidney Int. 61: 676-85.</a></li> <li>Moreno-Manzano, V. <i>et al.</i> (2003) Retinoids as a potential treatment for experimental puromycin-induced nephrosis <a href="#">Br J Pharmacol. 139: 823-31.</a></li> <li>Shiraishi, H. <i>et al.</i> (2002) Antibody binding to fas ligand attenuates inflammatory cell infiltration and cytokine secretion, leading to reduction of myocardial infarct areas and</li> </ol>

- reperfusion injury. [Lab Invest. 82: 1121-9.](#)
8. Rusai, K. *et al.* (2008) Administration of interleukin-1 receptor antagonist ameliorates renal ischemia-reperfusion injury. [Transpl Int. 21: 572-80.](#)
9. Antus, B. *et al.* (2001) Contribution of androgens to chronic allograft nephropathy is mediated by dihydrotestosterone [Kidney Int. 60: 1955-63.](#)
10. 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.](#)
11. 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.](#)
12. 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.](#)
13. 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.](#)
14. 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.](#)
15. Pamukcu, O. *et al.* (2016) Anti-inflammatory role of obestatin in autoimmune myocarditis. [Clin Exp Pharmacol Physiol. 43 \(1\): 47-55.](#)

<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA52R">https://www.bio-rad-antibodies.com/SDS/MCA52R</a></p> <p>10040</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>

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 \(MCA1209\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

'M368185:200529'

Printed on 18 Jan 2024

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