# Datasheet: MCA52GA

## BATCH NUMBER 169639

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| **Description:** | MOUSE ANTI RAT CD5 |
| **Specificity:** | CD5 |
| **Format:** | Purified |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | OX-19 |
| **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 | ▪ | | | 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.**

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| **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 |

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| **Carrier Free** | Yes |
| **Approx. Protein Concentrations** | IgG concentration 1.0mg/ml |
| **Immunogen** | Rat thymocyte glycoproteins. |
| **External Database Links** | **UniProt:**<br>P51882 Related reagents<br><br>**Entrez Gene:**<br>54236 Cd5 Related reagents |
| **RRID** | AB_566834 |
| **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.<br><br>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).<br><br>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.<br>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.<br>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.<br>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.<br>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.<br>6. Antus, B. *et al.* (2001) Contribution of androgens to chronic allograft nephropathy is mediated by dihydrotestosterone Kidney Int. 60: 1955-63.<br>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.

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| **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.<br><br>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/MCA52GA |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Secondary Antibodies

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| 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 |

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|---|---|
| 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

'M405570:220916'

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