

## Datasheet: MCA1043GA

|                      |                     |
|----------------------|---------------------|
| <b>Description:</b>  | RAT ANTI DOG CD45R  |
| <b>Specificity:</b>  | CD45R               |
| <b>Format:</b>       | Purified            |
| <b>Product Type:</b> | Monoclonal Antibody |
| <b>Clone:</b>        | YKIX753.22.2        |
| <b>Isotype:</b>      | IgG2b               |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             | ▪   |    |                | 1/50 - 1/100       |
| Immunohistology - Frozen   | ▪   |    |                |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      |     |    | ▪              |                    |
| Immunoprecipitation        | ▪   |    |                |                    |
| Western Blotting           |     |    | ▪              |                    |
| Cytotoxic Assays           | ▪   |    |                |                    |

Where this product 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 product for use in their own system using appropriate negative/positive controls.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Dog   |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Carrier Free</b>             | Yes   |

|                                       |   |
|---------------------------------------|---|
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml   |
| <b>Immunogen</b>                      | Canine thymocytes   |
| <b>Fusion Partners</b>                | Spleen cells from immunised DA rat were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line  |
| <b>Specificity</b>                    | <b>Rat anti Dog CD45R antibody, clone YKIX753.22.2</b> recognizes canine CD45R and was clustered at the First Canine Leucocyte Antigen Workshop (CLAW). It precipitates an antigen of 220 kDa from Con A Blasts, ( <a href="#">Cobbold et al. 1994</a> ). It is expressed on subsets of leucocytes in canine blood of all outbred mongrels and beagles tested. Rat anti dog CD45R, clone YKIX753.22.2 binds to antigen immunoprecipitated by the Rat anti Dog CD45 antibody <a href="#">clone YKIX716.13</a> ( <a href="#">Cobbold et al. 1994</a> ).   |
| <b>Flow Cytometry</b>                 | Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul  |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. Cobbold, S. &amp; Metcalfe, S. (1994) Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). <a href="#">Tissue Antigens 43 (3): 137-54.</a></li> <li>2. Reis, A.B. et al. (2006) Phenotypic features of circulating leucocytes as immunological markers for clinical status and bone marrow parasite density in dogs naturally infected by <i>Leishmania chagasi</i>. <a href="#">Clin Exp Immunol.146: 303-11.</a></li> <li>3. Giunchetti, R.C. et al. (2008) Antigenicity of a whole parasite vaccine as promising candidate against canine leishmaniasis. <a href="#">Res Vet Sci. 85 (1): 106-12.</a></li> <li>4. Pawlak, A., et al. (2014) Immunophenotypic characterization of canine malignant lymphoma: a retrospective study of cases diagnosed in Poland Lower Silesia, over the period 2011–2013. <a href="#">Vet Comp Oncol. 10.1111/vco.12112.</a></li> <li>5. Reis, A.B. et al. (2014) Cellular immunophenotypic profile in the splenic compartment during canine visceral leishmaniasis. <a href="#">Vet Immunol Immunopathol. 157 (3-4): 190-6.</a></li> <li>6. Reis, A.B. et al. (2005) Establishment of a microplate assay for flow cytometric assessment and its use for the evaluation of age-related phenotypic changes in canine whole blood leukocytes. <a href="#">Vet Immunol Immunopathol. 103 (3-4): 173-85.</a></li> </ol> |
| <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>  | Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>   |
| <b>Regulatory</b>                     | For research purposes only  |

## Related Products

### Recommended Secondary Antibodies

|  |   |
|--|---|
| Rabbit Anti Rat IgG (STAR17...)                | <a href="#">FITC</a>                                |
| Goat Anti Rat IgG (STAR69...)                  | <a href="#">FITC</a>                                |
| Goat Anti Rat IgG (STAR131...)                 | <a href="#">Alk. Phos.</a> , <a href="#">Biotin</a> |
| Goat Anti Rat IgG (STAR73...)                  | <a href="#">RPE</a>                                 |
| Rabbit Anti Rat IgG (STAR21...)                | <a href="#">HRP</a>                                 |
| Rabbit Anti Rat IgG (STAR16...)                | <a href="#">DyLight®800</a>                         |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | <a href="#">DyLight®800</a>                         |
| Goat Anti Rat IgG (STAR72...)                  | <a href="#">HRP</a>                                 |

### Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL \(MCA6006GA\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>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<br>Fax: +44 (0)1865 852 739<br>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<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

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)  
'M364711:200529'

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