Datasheet: MCA1038PECY7

<table>
<thead>
<tr>
<th>Description</th>
<th>RAT ANTI DOG CD4:RPE-Cy7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>CD4</td>
</tr>
<tr>
<td>Format</td>
<td>RPE-CY7</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>YKIX302.9</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG2a</td>
</tr>
<tr>
<td>Quantity</td>
<td>100 TESTS/1ml</td>
</tr>
</tbody>
</table>

### 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).

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Neat</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

**Target Species**

Dog

**Product Form**

Purified IgG conjugated to R. Phycoerythrin (RPE)-Cy7 - lyophilised

**Reconstitution**

Reconstitute with 1ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

**Max Ex/Em**

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPE-Cy7</td>
<td>496</td>
<td>695</td>
</tr>
</tbody>
</table>

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative**

0.09% Sodium Azide (NaN₃)

1% Bovine Serum Albumin

5% Sucrose

**Stabilisers**

Canine concanavalin A activated T cell blasts.

**External Database Links**

**UniProt:**

[P33705](http://www.bio-rad-antibodies.com/protocols)

Related reagents
Fusion Partners
Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.

Specificity
Rat anti Dog CD4 antibody, clone YKIX302.9, is a monoclonal antibody specific for the canine CD4 cell surface antigen. Clone YKIX302.9 was clustered at the first Canine Leukocyte Antigen Workshop (CLAW) [Cobbold et al. 1992] along with clone CA13.1E4.

Rat anti Dog CD4 antibody, clone YKIX302.9 partially depletes circulating T lymphocytes when administered in vivo, but alone is not sufficient to prolong allograft survival in a canine transplant model (Watson et al. 1993).

Uniquely amongst mammals, canine CD4 is expressed by neutrophils as well as by lymphocytes subsets Moore et al. 1992.

Flow Cytometry
Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul

References


38. DaSilva, A.V.A. et al. (2018) Morphophysiological changes in the splenic extracellular matrix of
*Leishmania infantum*-naturally infected dogs is associated with alterations in lymphoid niches and

### Storage
Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and
should be protected from light.

### Shelf Life
12 months from date of reconstitution

### Acknowledgements
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### Health And Safety Information
Material Safety Datasheet documentation #10075 available at:

### Regulatory
For research purposes only

## Related Products
**Recommended Negative Controls**

**RAT IgG2a NEGATIVE CONTROL:RPE-Cy7 (MCA6005PECY7)**

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