Datasheet: MCA1038PECY7

Description: RAT ANTI DOG CD4:RPE-Cy7
Specificity: CD4
Format: RPE-CY7
Product Type: Monoclonal Antibody
Clone: YKIX302.9
Isotype: IgG2a
Quantity: 100 TESTS/1ml

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td>Neat</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 Stabilisers
0.09% Sodium Azide (NaN₃)
1% Bovine Serum Albumin
5% Sucrose

Immunogen
Canine concanavilin A activated T cell blasts.

External Database Links
UniProt: P33705
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 (YKIX302.9) has been demonstrated to partially deplete circulating T lymphocytes when administered in vivo, but alone was 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. Rat anti Canine CD4 (YKIX302.9) forms part of a panel of anti canine monoclonal antibodies used extensively in the evaluation of leukemic status in dogs (Villiers 2002).

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

References


**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.

<table>
<thead>
<tr>
<th>Shelf Life</th>
<th>12 months from date of reconstitution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acknowledgements</td>
<td>Cy® and CyDye® are registered trademarks of GE Healthcare</td>
</tr>
<tr>
<td>Regulatory</td>
<td>For research purposes only</td>
</tr>
</tbody>
</table>

**Recommended Products**

**Recommended Negative Controls**

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

Printed on 28 Jan 2018