Datasheet: DC034

Description: RAT ANTI MOUSE CD4:FITC/CD8:RPE
Specificity: CD4/CD8
Format: FITC/RPE
Product Type: Dual Color Reagent
Clone: YTS191.1/KT15
Isotype: Cocktail
Quantity: 100 TESTS

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>Method</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>
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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 own system using appropriate negative/positive controls.

Antibody Isotypes
FITC reagent: IgG2b (RAT)
RPE reagent: IgG2a (RAT)

Target Species
Mouse

Product Form
Dual Colour combination consisting of FITC conjugated and RPE conjugated monoclonal antibodies mixed in optimal ratio - lyophilised.

Reconstitution
Reconstitute with 1 ml distilled water

Max Ex/Em

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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</thead>
<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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<tr>
<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
</tr>
<tr>
<td>RPE 561nm laser</td>
<td>546</td>
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</tbody>
</table>

Buffer Solution
Phosphate buffered saline

Preservative Stabilisers
0.09% Sodium Azide
1% Bovine Serum Albumin
5% Sucrose

External Database Links
UniProt: P06332 Related reagents
Synonyms

Cd8b1, Ly-3, Lyt2, Lyt-2, Lyt3, Lyt-3

Specificity

**Rat anti Mouse CD4:FITC/CD8:RPE dual colour reagent** was developed for the simultaneous recognition of mouse CD4 and CD8 cell surface antigens. Clone YTS191.1 recognises murine CD4, a T cell differentiation antigen expressed on thymocytes and helper/inducer T cells in the peripheral blood. Clone KT15 recognises a non-polymorphic epitope on the murine CD8 alpha chain.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).

References

2. Lis, M. *et al.* (2013) Modulatory effects of bestatin on T and B lymphocyte subsets and the concentration of cytokines released by Th1/Th2 lymphocytes in cyclophosphamide-treated mice *Centr Eur J Immunol* 38: 42-53

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

12 months from date of reconstitution.

Health And Safety Information


Regulatory

For research purposes only