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

**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></th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
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<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 - lyophilized

**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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<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
</tr>
<tr>
<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
</tr>
<tr>
<td>RPE 561nm laser</td>
<td>546</td>
<td>578</td>
</tr>
</tbody>
</table>

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide
### External Database Links

**UniProt:**
- P06332 [Related reagents](#)
- P01731 [Related reagents](#)
- P10300 [Related reagents](#)

**Entrez Gene:**
- 12504 Cd4 [Related reagents](#)
- 12525 Cd8a [Related reagents](#)
- 12526 Cd8b1 [Related reagents](#)

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

### RRID
- AB_323752

### 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

7. Szczypka, M. *et al.* (2020) Selegiline and clomipramine effects on lymphocyte subsets,
regulatory T cells and sheep red blood cell (SRBC)-induced humoral immune response after in vivo administration in mice. Eur J Pharmacol. 887: 173560.


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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/DC034

Regulatory

For research purposes only