Datasheet: MCA1267PET

**Description:** MOUSE ANTI HUMAN CD4:RPE

**Specificity:** CD4

**Format:** RPE

**Product Type:** Monoclonal Antibody

**Clone:** RPA-T4

**Isotype:** IgG1

**Quantity:** 25 TESTS

**RRID** AB_1101984

**Applications**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Neat - 1/10</td>
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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).

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.

**Target Species** Human

**Product Form** Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid

**Max Ex/Em**

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tr>
<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
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**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

1% Bovine Serum Albumin

5% Sucrose

**Immunogen** Human PHA blasts

**External Database Links**

- UniProt: [P01730](http://www.uniprot.org/uniprot/P01730)

- Related reagents

- Entrez Gene:
**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSI myeloma cell line.

**Specificity**

Mouse anti human CD4 antibody, clone RPA-T4 recognizes human CD4, a 55 kDa cell surface glycoprotein that is primarily expressed on a subpopulation of T lymphocytes, on peripheral blood monocytes and on tissue macrophages. Epitope mapping studies have shown that antibodies, produced by clone RPA-T4, recognize an epitope within domain 1 of the extracellular region of the CD4 molecule.

Mouse anti human CD4 antibody, clone RPA-T4 has been reported to block gp120-CD4 interaction and inhibit syncytium formation, see Piatier-Tonneau *et al.*, 1997 for details. Bio-Rad recommend the use of Mouse anti Human CD4:Low Endotoxin (MCA1267EL) for this purpose.

**Flow Cytometry**

Use 10ul of the suggested working dilution to label $10^6$ cells or 100ul whole blood.

**References**


**Storage**

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**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Negative Controls**

**Recommended Useful Reagents**

**HUMAN SEROBLOCK (BUF070A)**