## Datasheet: MCA1267A700T

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI HUMAN CD4:Alexa Fluor® 700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>CD4</td>
</tr>
<tr>
<td>Format</td>
<td>ALEXA FLUOR® 700</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>RPA-T4</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity</td>
<td>25 TESTS/0.25ml</td>
</tr>
</tbody>
</table>

### Product Details

**RRID**
AB_1101981

**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>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 - 1/10</td>
</tr>
</tbody>
</table>

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 Alexa Fluor® 700 - liquid

**Max Ex/Em**

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexa Fluor®700</td>
<td>702</td>
<td>723</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  
1% Bovine Serum Albumin

**Approx. Protein Concentrations**
IgG concentration 0.05 mg/ml

**Immunogen**
Human PHA blasts

**External Database Links**

<table>
<thead>
<tr>
<th>UniProt</th>
<th>Related reagents</th>
</tr>
</thead>
<tbody>
<tr>
<td>P01730</td>
<td>Related reagents</td>
</tr>
</tbody>
</table>
Entrez Gene:

920 CD4 Related reagents

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 or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee
18 months from date of despatch.

Acknowledgements
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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:


**Regulatory**

For research purposes only

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**Related Products**

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 700 (MCA928A700)

**Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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