Datasheet: MCA500APCT

Description: RAT ANTI MOUSE CD3:APC

Specificity: CD3

Format: APC

Product Type: Monoclonal Antibody

Clone: KT3

Isotype: IgG2a

Quantity: 25 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>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>
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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.

Target Species

Mouse

Product Form

Purified IgG conjugated to Allophycocyanin (APC) - lyophilised

Reconstitution

Reconstitute with 0.25ml 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>APC</td>
<td>650</td>
<td>661</td>
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</table>

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

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

Immunogen

CBAT6 thymocytes

External Database Links

UniProt:
P22646 Related reagents
P24161 Related reagents
P11942 Related reagents
Spleen cells from immunised SD rats were fused with cells of the NS0 mouse myeloma cell line.

**Specificity**

Rat anti Mouse CD3 antibody, clone KT3 recognizes the mouse CD3 antigen, which is expressed by mature T cells. Rat anti Mouse CD3 antibody, clone KT3 may be used to trigger proliferation and cytotoxicity of CD3 positive cells.

NB. For optimal staining incubations should be performed at room temperature.

**Flow Cytometry**

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

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**

influences distribution of immunocompetent cells in the skin and lymph nodes of mice. 


14. Rothhammer, V. et al. (2011) Th17 lymphocytes traffic to the central nervous system independently of α4 integrin expression during EAE. 


J Neuroinflammation. 8: 181.


EMBO Mol Med. pii: e201404170.


Virus Res. 208: 44-55.


20. Teeling, J.L. et al. (2012) Intracerebral immune complex formation induces inflammation in the brain that depends on Fc receptor interaction. 


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

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