

## Datasheet: MCA500P750

<b>Description:</b>	RAT ANTI MOUSE CD3:RPE-Alexa Fluor® 750
<b>Specificity:</b>	CD3
<b>Format:</b>	RPE-ALEXA FLUOR® 750
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	KT3
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse									
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Alexa Fluor® 750 - lyophilized									
Reconstitution	Reconstitute with 1.0 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.									
Max Ex/Em	<table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>RPE-Alexa Fluor®750 488nm laser</td><td>496</td><td>779</td></tr><tr><td>RPE-Alexa Fluor®750 561nm laser</td><td>546</td><td>779</td></tr></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE-Alexa Fluor®750 488nm laser	496	779	RPE-Alexa Fluor®750 561nm laser	546	779
Fluorophore	Excitation Max (nm)	Emission Max (nm)								
RPE-Alexa Fluor®750 488nm laser	496	779								
RPE-Alexa Fluor®750 561nm laser	546	779								
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant									
Buffer Solution	Phosphate buffered saline									

<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose
<b>Immunogen</b>	CBAT6 thymocytes
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P22646</a>   <a href="#">Related reagents</a></p> <p><a href="#">P24161</a>   <a href="#">Related reagents</a></p> <p><a href="#">P11942</a>   <a href="#">Related reagents</a></p> <p><a href="#">P29020</a>   <a href="#">Related reagents</a></p> <p><a href="#">P04235</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">12501</a>   Cd3e   <a href="#">Related reagents</a></p> <p><a href="#">12503</a>   Cd247   <a href="#">Related reagents</a></p> <p><a href="#">12500</a>   Cd3d   <a href="#">Related reagents</a></p> <p><a href="#">12502</a>   Cd3g   <a href="#">Related reagents</a></p> <p><a href="#">12503</a>   Cd247   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Cd3z, T3d, Tcrz
<b>RRID</b>	AB_566701
<b>Fusion Partners</b>	Spleen cells from immunized SD rats were fused with cells of the NS0 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse CD3 antibody, clone KT3</b> recognizes the mouse CD3 antigen, expressed by mature T cells. Rat anti Mouse CD3 antibody, clone KT3 may be used to trigger proliferation and cytotoxicity of CD3 positive cells (<a href="#">Tomonari 1988</a>).</p> <p>NB. For optimal staining incubations should be performed at room temperature.</p>
<b>Flow Cytometry</b>	<p>Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or 100ul whole blood.</p> <p>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 (<a href="#">BUF041A/B/C</a>)</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Tomonari, K. (1988) A rat antibody against a structure functionally related to the mouse T-cell receptor/T3 complex. <a href="#">Immunogenetics. 28 (6): 455-8.</a></li> <li>2. Lazarovits, A.I. <i>et al.</i> (1999) Mechanisms of induction of renal allograft tolerance in CD45RB-treated mice. <a href="#">Kidney Int. 55: 1303-10.</a></li> <li>3. Heitmann, S. <i>et al.</i> (1999) Immunohistological characterization of leukocytes in the lungs of healthy mice and after bacterial intratracheal infection. <a href="#">Lab Anim. 33: 288-94.</a></li> <li>4. Tarlton, J.F. <i>et al.</i> (2000) The role of up-regulated serine proteases and matrix metalloproteinases in the pathogenesis of a murine model of colitis. <a href="#">Am J Pathol. 157:</a></li> </ol>

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<b>Storage</b>	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a>
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA500P750">https://www.bio-rad-antibodies.com/SDS/MCA500P750</a> 20487
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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Tel: +44 (0)1865 852 700

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