

## Datasheet: MCA500G

**BATCH NUMBER 162890**

<b>Description:</b>	RAT ANTI MOUSE CD3
<b>Specificity:</b>	CD3
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	KT3
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.25 mg

## 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	▪			1/100
Immunohistology - Frozen (1)	▪			
Immunohistology - Paraffin		▪		
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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.

**(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<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_321252
<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>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<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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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA500G>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR20...) [RPE](#)

Donkey Anti Rat IgG (H/L) (643001...) [HRP](#)

Rabbit Anti Rat IgG (STAR17...) [FITC](#)

Goat Anti Rat IgG (STAR69...) [FITC](#)

Goat Anti Rat IgG (STAR73...) [RPE](#)

Rabbit Anti Rat IgG (STAR21...) [HRP](#)

Goat Anti Rat IgG (STAR131...) [Alk. Phos.](#)

## Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

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