

Datasheet: MCA500G

BATCH NUMBER 167062

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| Description: | RAT ANTI MOUSE CD3 |
| Specificity: | CD3 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | KT3 |
| Isotype: | IgG2a |
| Quantity: | 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.

| | 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.

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

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|---------------------------------------|---|
| Preservative Stabilisers | 0.09% Sodium Azide |
| Carrier Free | Yes |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | CBAT6 thymocytes |
| External Database Links | <p>UniProt:</p> <p>P22646 Related reagents</p> <p>P24161 Related reagents</p> <p>P11942 Related reagents</p> <p>P29020 Related reagents</p> <p>P04235 Related reagents</p> <p>Entrez Gene:</p> <p>12501 Cd3e Related reagents</p> <p>12503 Cd247 Related reagents</p> <p>12500 Cd3d Related reagents</p> <p>12502 Cd3g Related reagents</p> <p>12503 Cd247 Related reagents</p> |
| Synonyms | Cd3z, T3d, Tcrz |
| RRID | AB_321252 |
| Fusion Partners | Spleen cells from immunized SD rats were fused with cells of the NS0 mouse myeloma cell line. |
| Specificity | <p>Rat anti Mouse CD3 antibody, clone KT3 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 (Tomonari 1988).</p> <p>NB. For optimal staining incubations should be performed at room temperature.</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | <ol style="list-style-type: none"> 1. Tomonari, K. (1988) A rat antibody against a structure functionally related to the mouse T-cell receptor/T3 complex. Immunogenetics. 28 (6): 455-8. 2. Lazarovits, A.I. <i>et al.</i> (1999) Mechanisms of induction of renal allograft tolerance in CD45RB-treated mice. Kidney Int. 55: 1303-10. 3. Heitmann, S. <i>et al.</i> (1999) Immunohistological characterization of leukocytes in the lungs of healthy mice and after bacterial intratracheal infection. Lab Anim. 33: 288-94. 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. Am J Pathol. 157: |

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| Storage | <p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p> |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA500G10040 |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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|---------------------------------------|----------------------------|
| 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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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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