

## Datasheet: MCA500SBV570

|                      |  |
|----------------------|--|
| <b>Description:</b>  | RAT ANTI MOUSE CD3:StarBright Violet 570 |
| <b>Specificity:</b>  | CD3                                      |
| <b>Format:</b>       | StarBright Violet 570                    |
| <b>Product Type:</b> | Monoclonal Antibody                      |
| <b>Clone:</b>        | KT3                                      |
| <b>Isotype:</b>      | IgG2a                                    |
| <b>Quantity:</b>     | 100 TESTS/0.5ml                          |

## 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.

|                        |   |                            |                          |
|------------------------|---|----------------------------|--------------------------|
| <b>Target Species</b>  | Mouse   |                            |                          |
| <b>Product Form</b>    | Purified IgG conjugated to StarBright Violet 570 - liquid                                     |                            |                          |
| <b>Max Ex/Em</b>       | <b>Fluorophore</b>  | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                        | StarBright Violet 570   | 402                        | 570                      |
| <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</b>    | 0.09% Sodium Azide (NaN <sub>3</sub> )  |                            |                          |
| <b>Stabilisers</b>     | 1% Bovine Serum Albumin   |                            |                          |
|                        | 0.1% Pluronic F68   |                            |                          |
|                        | 0.1% PEG 3350   |                            |                          |
|                        | 0.05% Tween 20  |                            |                          |

Immunogen CBAT6 thymocytes

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**External Database**

**Links**

**UniProt:**

[P22646](#) [Related reagents](#)  
[P24161](#) [Related reagents](#)  
[P11942](#) [Related reagents](#)  
[P29020](#) [Related reagents](#)  
[P04235](#) [Related reagents](#)

**Entrez Gene:**

[12501](#) Cd3e [Related reagents](#)  
[12503](#) Cd247 [Related reagents](#)  
[12500](#) Cd3d [Related reagents](#)  
[12502](#) Cd3g [Related reagents](#)  
[12503](#) Cd247 [Related reagents](#)

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**Synonyms**

Cd3z, T3d, Tcrz

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**Fusion Partners**

Spleen cells from immunized SD rats were fused with cells of the NS0 mouse myeloma cell line.

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**Specificity**

**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](#)).

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

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**Flow Cytometry**

Use 5ul of the suggested working dilution to label  $10^6$  cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

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**References**

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| <b>Storage</b>                       | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted.  |
| <b>Guarantee</b>                     | 12 months from date of despatch  |
| <b>Acknowledgements</b>              | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts  |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20471 available at:<br>20471: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/20471.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/20471.pdf</a> |
| <b>Regulatory</b>                    | For research purposes only   |

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## Related Products

### Recommended Useful Reagents

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

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

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

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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](https://bio-rad-antibodies.com/datasheets)

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