

## Datasheet: MCA500SBV440

<b>Description:</b>	RAT ANTI MOUSE CD3:StarBright Violet 440
<b>Specificity:</b>	CD3
<b>Format:</b>	StarBright Violet 440
<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 440 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	StarBright Violet 440	383	436
<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		
<b>Immunogen</b>	CBAT6 thymocytes		

**External Database  
Links**

**UniProt:**

<a href="#">P22646</a>	<a href="#">Related reagents</a>
<a href="#">P24161</a>	<a href="#">Related reagents</a>
<a href="#">P11942</a>	<a href="#">Related reagents</a>
<a href="#">P29020</a>	<a href="#">Related reagents</a>
<a href="#">P04235</a>	<a href="#">Related reagents</a>

**Entrez Gene:**

<a href="#">12501</a>	Cd3e	<a href="#">Related reagents</a>
<a href="#">12503</a>	Cd247	<a href="#">Related reagents</a>
<a href="#">12500</a>	Cd3d	<a href="#">Related reagents</a>
<a href="#">12502</a>	Cd3g	<a href="#">Related reagents</a>
<a href="#">12503</a>	Cd247	<a href="#">Related reagents</a>

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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 5µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

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**References**

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**Storage**

Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign

counterparts

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**Health And Safety Information**      Material Safety Datasheet documentation #20438 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA500SBV440>  
20438

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**Regulatory**                      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

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

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

**Worldwide**

Tel: +44 (0)1865 852 700

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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://www.bio-rad-antibodies.com/datasheets)

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