

Datasheet: MCA500SBR670

Description:	RAT ANTI MOUSE CD3:StarBright Red 670
Specificity:	CD3
Format:	StarBright Red 670
Product Type:	Monoclonal Antibody
Clone:	KT3
Isotype:	IgG2a
Quantity:	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.

	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 StarBright Red 670 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Red 670	653	666
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
	0.1% Pluronic F68		
	0.1% PEG 3350		
	0.05% Tween 20		

Approx. Protein Concentrations For information on the concentration of our StarBright Dye conjugated reagents please visit our [FAQ](#) page.

Immunogen CBAT6 thymocytes

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

Synonyms Cd3z, T3d, Tcrz

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

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.

Flow Cytometry Use 5µl of the suggested working dilution to label 0.5x10⁶ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

References

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Storage

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

Guarantee

12 months from date of despatch

Acknowledgements

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

Health And Safety Information

Material Safety Datasheet documentation #20471 available at: <https://www.bio-rad-antibodies.com/SDS/MCA500SBR670>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

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

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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