

# Datasheet: MCA500A488

**BATCH NUMBER 1608**

<b>Description:</b>	RAT ANTI MOUSE CD3:Alexa Fluor® 488
<b>Specificity:</b>	CD3
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	KT3
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

## 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 - 1/10

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.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 488 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®488	495	519
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<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>

**Synonyms**

Cd3z, T3d, Tcrz

**RRID**

AB\_324881

**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 10ul of the suggested working dilution to label  $10^6$  cells or 100ul whole blood.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

**References**

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA500A488>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA1212A488\)](#)

### Recommended Useful Reagents

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

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

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