

## Datasheet: MCA2805PE

<b>Description:</b>	RAT ANTI MOUSE CD8 BETA:RPE
<b>Specificity:</b>	CD8 BETA
<b>Other names:</b>	LY-3
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YTS156.7.7
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.5 ml

### 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 - 1/5

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 R. Phycoerythrin (RPE) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml		

**Immunogen** Mouse thymocytes.

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**External Database**

**Links**

**UniProt:**

[P10300](#) [Related reagents](#)

**Entrez Gene:**

[12526](#) Cd8b1 [Related reagents](#)

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**Synonyms**

Cd8b1, Ly-3, Lyt3, Lyt-3

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**RRID**

AB\_2229099

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**Specificity**

**Rat anti Mouse CD8 beta antibody, clone YTS156.7.7** recognizes the murine T-cell surface glycoprotein CD8 beta chain, also known as CD8 $\beta$ , LY-3 or Lyt-3. CD8 $\beta$  is a 213 amino acid ~25 kDa single pass type-1 transmembrane glycoprotein bearing a single [Ig-like V-type](#) domain ([UniProt: P10300](#)). CD8 is formed of a heterodimer between an  $\alpha$  and  $\beta$  subunit linked by a pair of disulphide bonds ([IntAct: P10300](#)). The epitope recognized by clone YTS156.7.7 is restricted to the CD8 $\beta$  subunit and centers on [Arg<sup>β77</sup> and Arg<sup>β78</sup>](#) of the D-E loop of CD8 $\beta$  ([Shore et al. 2008](#)).

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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](#)).

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**References**

1. McNicol, A.M. *et al.* (2007) CD8alpha/alpha homodimers fail to function as co-receptor for a CD8-dependent TCR. [Eur J Immunol. 37 \(6\): 1634-41.](#)
  2. Shore, D.A. *et al.* (2008) The crystal structure of CD8 in complex with YTS156.7.7 Fab and interaction with other CD8 antibodies define the binding mode of CD8 alphabeta to MHC class I. [J Mol Biol. 2008 Dec 31;384\(5\):1190-202.](#)
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**Storage**

Store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. 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: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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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

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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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