

Datasheet: MCA2805PE

BATCH NUMBER 171204

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

	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.

Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
RPE 488nm laser	496	578					
Preparation	Purified IgG prepared by affinity chromatography						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.1mg/ml						

Immunogen	Mouse thymocytes.
External Database Links	<p>UniProt: P10300 Related reagents</p> <p>Entrez Gene: 12526 Cd8b1 Related reagents</p>
Synonyms	Cd8b1, Ly-3, Lyt3, Lyt-3
RRID	AB_2229099
Specificity	<p>Rat anti Mouse CD8 beta antibody, clone YTS156.7.7 recognizes the murine T-cell surface glycoprotein CD8 beta chain, also known as CD8β, LY-3 or Lyt-3. CD8β 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 α and β subunit linked by a pair of disulphide bonds (IntAct: P10300). The epitope recognized by clone YTS156.7.7 is restricted to the CD8β subunit and centers on Arg^{β77} and Arg^{β78} of the D-E loop of CD8β (Shore et al. 2008).</p>
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.</p> <p>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).</p>
References	<ol style="list-style-type: none"> McNicol, A.M. <i>et al.</i> (2007) CD8alpha/alpha homodimers fail to function as co-receptor for a CD8-dependent TCR. Eur J Immunol. 37 (6): 1634-41. Shore, D.A. <i>et al.</i> (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.
Storage	<p>Store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2805PE</p> <p>10041</p>
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

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

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

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