

Datasheet: MCA2805PE

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	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	UniProt: P10300 Related reagents		

Entrez Gene:[12526](#) Cd8b1 [Related reagents](#)

Synonyms	Cd8b1, Ly-3, Lyt3, Lyt-3
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 β , LY-3 or Lyt-3. CD8 β 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 CD8 β subunit and centers on Arg^{β77} and Arg^{β78} of the D-E loop of CD8 β (Shore et al. 2008).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ 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).
References	1. 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. 2. 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	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.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10041 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

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 3751Email: antibody_sales_us@bio-rad.com**Worldwide**

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