

# Datasheet: MCA1031SBUV605 BATCH NUMBER 100006730

Description:	RAT ANTI MOUSE CD45:StarBright UltraViolet 605
Specificity:	CD45
Other names:	LCA
Format:	StarBright UltraViolet 605
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody YW62.3
	,

## **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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			Neat	
Where this product has not been tested for use in a particular technique					hnique this does not	
	necessarily exclude it a guide only. It is reco system using appropr	ommended that t	he use	r titrates the product	ng dilutions are given as for use in their own	
Target Species	Mouse					
Product Form	Purified IgG conjugate	ed to StarBright	UltraVi	olet 605 - liquid		
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)		
	StarBright UltraViolet 605	340		609		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Alb 0.1% Pluronic F68					

#### 0.1% PEG 3350 0.05% Tween 20

Immunogen	Mouse spleen cells.	
External Database Links	UniProt:P06800Related reagentsEntrez Gene:19264PtprcRelated reagents	
Synonyms	Ly-5	
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the cell line.	the rat Y3/Ag1.2.3 myeloma
Specificity	<b>Rat anti Mouse CD45 antibody, clone YW62.3</b> recognizes th antigen, a single pass type 1 transmembrane glycoprotein also phosphatase receptor type C (PTPRC) and originally termed L (LCA). CD45 is a 180-220kDa glycoprotein expressed by all le CD45 is encoded by 3 alleles in mice, differentially expressed The Ly5 gene was originally described with the gene product L and Ly5.2 expressed in SJL strains (Komura <i>et al.</i> 1975), this to include a third allele encoding Ly5.3 (Shen <i>et al.</i> 1986). Furt nomenclature was instigated resulting in the allele in C57bl/6 L Ly5.2 and the allele in SJL mice becoming Ly5 <sup>a</sup> encoding Ly5. Further changes were made in 1992 with Ly5.1 becoming CD4 becoming CD45.2 (C57bl/6). Finally, following work demonstra CD45 antigen and a receptor linked protein tyrosine phosphata renamed Ptprc <sup>a</sup> and CD45 <sup>b</sup> renamed Ptprc <sup>b</sup> (Charbonneau <i>et</i> 1991). A number of different isoforms of CD45 are expressed on muri on the pattern of alternative splicing of 3 exons termed A, B ar 50 amino acids located at the N terminal region of the extracel restricted proteins are termed CD45R with a designation depe codon product. (Birkeland <i>et al.</i> 1989). Rat anti mouse CD45 antibody, clone YW62.3 is reactive with CD45.	known as protein tyrosine eucocyte Common Antigen eucocytes. by various inbred strains. _Y5.1 expressed in C57bl/6 was subsequently expanded ther, in 1987 a reversal of becoming Ly5 <sup>b</sup> encoding .1 ( <u>Morse <i>et al.</i> 1987</u> ). 45.1 (SJL) and Ly5.2 ating homology between the ase the CD45 <sup>a</sup> gene was <i>al.</i> 1988; Zebedee <i>et al.</i> ine leucocytes depending nd C encoding regions of ~ Ilular portion of CD45. The nding on the expressed
	N.B. Some reactivity with human tissue has been observed.	
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 5 suggest a 5 minutes centrifugation at 6,000g prior to sample a	

References

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StorageStore 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/MCA1031SBUV605 20471
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	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21	
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50	
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