

Datasheet: MCA1031SBB615

Description:	RAT ANTI MOUSE CD45:StarBright Blue 615				
Specificity:	CD45				
Other names:	LCA				
Format:	StarBright Blue 615				
Product Type:	Monoclonal Antibody				
Clone:	YW62.3				
Isotype:	lgG2b				
Quantity:	100 TESTS/0.5ml				

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 necessarily exclude its a guide only. It is recon system using appropria	use in such p nmended that	rocedur the use	es. Suggested workir r titrates the product	ng dilutions are given as	
Target Species	Mouse					
Product Form	Purified IgG conjugated to StarBright Blue 615 - liquid					
Max Ex/Em	Fluorophore	Excitation Max	k (nm)	Emission Max (nm)		
	StarBright Blue 615	475		612		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative	0.09% sodium azide (NaN ₃)					
Stabilisers	1% bovine serum albumin.					
	0.1% Pluronic F68					
	0.1% PEG 3350.					
	0.05% Tween 20					

Immunogen	Mouse spleen cells.
External Database Links	UniProt: <u>P06800</u> <u>Related reagents</u> Entrez Gene: <u>19264</u> Ptprc <u>Related reagents</u>
Synonyms	Ly-5
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line.
Specificity	 Rat anti Mouse CD45 antibody, clone YW62.3 recognizes the murine CD45 cell surface antigen, a single pass type1 transmembrane glycoprotein also known as protein tyrosine phosphatase receptor type C (PTPRC) and originally termed Leucocyte Common Antigen (LCA). CD45 is a 180-220kDa glycoprotein expressed by all leucocytes. CD45 is encoded by 3 alleles in mice, differentially expressed by various inbred strains. The Ly5 gene was originally described with the gene product LY5.1 expressed in C57bl/6 and Ly5.2 expressed in SJL strains (Komura <i>et al.</i> 1975), this was subsequently expanded to include a third allele encoding Ly5.3 (Shen <i>et al.</i> 1986). Further, in 1987 a reversal of nomenclature was instigated resulting in the allele in C57bl/6 becoming Ly5^b encoding Ly5.2 and the allele in SJL mice becoming Ly5^a encoding Ly5.1 (Morse <i>et al.</i> 1987). Further changes were made in 1992 with Ly5.1 becoming CD45.1 (SJL) and Ly5.2 becoming CD45.2 (C57bl/6). Finally, following work demonstrating homology between the CD45 antigen and a receptor linked protein tyrosine phosphatase the CD45^a gene was renamed Ptprc^a and CD45^b renamed Ptprc^b (Charbonneau <i>et al.</i> 1988; Zebedee <i>et al.</i> 1991). A number of different isoforms of CD45 are expressed on murine leucocytes depending an the pattern of alternative enlicing of 2 event termed A. B. and C. expending regione of were series of a straine of alternative enlicing of 2 event termed A. B. and C. expending regione of were series of a straine of alternative enlicing of 2 event termed A. B. and C.
	on the pattern of alternative splicing of 3 exons termed A, B and C encoding regions of ~ 50 amino acids located at the N terminal region of the extracellular portion of CD45. The restricted proteins are termed CD45R with a designation depending on the expressed codon product. (<u>Birkeland <i>et al.</i> 1989</u>). Rat anti mouse CD45 antibody, clone YW62.3 is reactive with all isoforms of murine
	CD45.
	N.B. Some reactivity with human tissue has been observed.
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	1. Watt, S.M. <i>et al.</i> (1987) Cell-surface markers on haemopoietic precursors. Reagents for the isolation and analysis of progenitor cell subpopulations. <u>Mol Cell Probes. 1 (4):</u> <u>297-326.</u>

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	experimental autoimmune uveitis: T-cell heterogeneity, migration, and steroid response. Eur J Immunol. 50 (12): 1941-51.
Storage	Store 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/MCA1031SBB615 20471

Related Products Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

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