

Datasheet: MCA1031SBB675

Description:	RAT ANTI MOUSE CD45:StarBright Blue 675
Specificity:	CD45
Other names:	LCA
Format:	StarBright Blue 675
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 recor system using appropria	use in such p mmended that	procedur the use	es. Suggested workin r titrates the product f	g dilutions are given as		
Target Species	Mouse						
Product Form	Purified IgG conjugated to StarBright Blue 675 - liquid						
Max Ex/Em	Fluorophore	Excitation Ma	ıx (nm)	Emission Max (nm)			
	StarBright Blue 675	476		675			
Preparation	Purified IgG prepared I supernatant	by affinity chro	omatogr	aphy on Protein G fror	m tissue culture		
Buffer Solution	Phosphate buffered sa	line					
Preservative	0.09% sodium azide (N	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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Related Products Recommended Useful Reagents

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