Datasheet: MCA1031G BATCH NUMBER 1711

Description:	RAT ANTI MOUSE CD45			
Specificity:	CD45			
Other names:	LCA			
Format:	Purified			
Product Type:	Monoclonal Antibody			
Clone:	YW62.3			
Isotype:	lgG2b			
Quantity:	0.25 mg			

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	•			1/100 - 1/200		
	Immunohistology - Frozen	•					
	Immunohistology - Paraffin						
	ELISA						
	Immunoprecipitation	•					
	Western Blotting						
	Immunofluorescence	•					
	Where this antibody has	here this antibody has not been tested for use in a particular technique this does r					
	necessarily exclude its use in such procedures. Suggested working dilutions are given as						
	a guide only. It is recommended that the user titrates the antibody for use in their own						
	system using appropriate negative/positive controls.						
Target Species	Mouse						
Product Form	Purified IgG - liquid						

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide

Stabilisers

Carrier Free	Yes				
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml				
Immunogen	Mouse spleen cells.				
External Database Links	UniProt: P06800 Related reagents Entrez Gene: 19264 Ptprc Related reagents				
Synonyms	Ly-5				
RRID	AB_321730				
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line.				
Specificity	ActionRat 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 				
	A number of different isoforms of CD45 are expressed on murine leucocytes depending 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 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.			
References	 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> Zirger, J.M. <i>et al.</i> (2012) Immune-mediated loss of transgene expression from virally transduced brain cells is irreversible, mediated by IFNγ, perforin, and TNFα, and due to the elimination of transduced cells. <u>Mol Ther. 20 (4): 808-19.</u> Long, G.G. <i>et al.</i> (2010) Hematopoietic Proliferative Lesions in the Spleen of rasH2 Transgenic Mice Treated with MNU. <u>Toxicol Pathol. 38: 1026-36.</u> 			
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Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarante	e	12 months from date of despatch						
Health A Informati	nd Safety on	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1031G 10040						
Regulato	ry	For research purposes only						
Relate	d Product	ts						
Recomm	Recommended Secondary Antibodies							
Rabbit A	nti Rat IgG (S	STAR16)		DyLight®800				
Rabbit A	Rabbit Anti Rat IgG (STAR17) <u>FITC</u>							
Goat Ant	Goat Anti Rat IgG (STAR72) HRP							
Goat Ant	Goat Anti Rat IgG (STAR69) <u>FITC</u>							
Goat Ant	Goat Anti Rat IgG (STAR73) <u>RPE</u>							
Rabbit A	Rabbit Anti Rat IgG (STAR21)							
Goat Ant	Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71) <u>DyLight®550</u> , <u>DyLight®650</u> , <u>DyLight®800</u>							
Goat Ant	i Rat IgG (ST	AR131)		<u>Alk. Phos., Bic</u>	otin			
North & South America	Tel: +1 800 265 7 Fax: +1 919 878 Email: antibody_s	3751	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio	Europe -rad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com		
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