## Datasheet: MCA1037PB BATCH NUMBER 162841

Description:	RAT ANTI DOG CD5:Pacific Blue®		
Specificity:	CD5		
Format:	Pacific Blue®		
Product Type:	Monoclonal Antibody		
Clone:	YKIX322.3		
Isotype:	lgG2a		
Quantity:	100 TESTS/1ml		

## **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 - 1/10			
	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 a 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	Dog						
Product Form	Purified IgG conjugated to Pacific Blue - liquid						
Max Ex/Em	Fluorophore	Excitation Max (r	m) Emission Max (nm)				
	Pacific Blue®	410	455				
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 (NaN <sub>3</sub> ) 1% bovine serum albumin						
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml						

Fusion Partners	Spleen cells from an immunized DA rat were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line			
Specificity	<b>Rat anti Dog CD5 antibody, clone YKIX322.3</b> recognizes canine CD5, a 67 kDa ce surface type 1 transmembrane glycoprotein also known as lymphocyte antigen T1, L Leu-1. CD5 is expressed on the surface of T-cells and thymocytes, CD5 is also expr by NK cells at low levels ( <u>Huang <i>et al.</i> 2008</u> ). Rat anti dog CD5, cloneYKIX322.3 wa clustered as canine CD5 in the First Canine Leucocyte Antigen Workshop ( <u>Cobbold</u> <u>1994</u> ).			
	In a study of 73 cases of canine chronic lymphocytic leukemia (CLL) CD5 expression absent on all cases of B-cell CLL as defined by CD21 expression and lack of CD3 of T cell antigen expression ( <u>Vernau and Moore 1999</u> ). Rat anti dog CD5 serves as a u marker for the discrimination of canine leukemias of differing origins ( <u>Deravi <i>et al.</i> 20</u>			
Flow Cytometry	Use 10µl of the suggested working dilution to label $10^6$ cells or 100µl of whole blood			
References	<ol> <li>Cobbold, S/ &amp; Metcalfe, S. (1994) Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leuke Antigen Workshop (CLAW). <u>Tissue Antigens. 43 (3): 137-54.</u></li> <li>Hewicker-Trautwein, M. <i>et al.</i> (1999) Immunocytochemical demonstration of lymph subsets and MHC class II antigen expression in synovial membranes from dogs with rheumatoid arthritis and degenerative joint disease. <u>Vet Immunol Immunopathol. 67</u> <u>341-57.</u></li> <li>Vernau, W. &amp; Moore, P.F. (1999) An immunophenotypic study of canine leukemias preliminary assessment of clonality by polymerase chain reaction. <u>Vet Immunol Immunopathol. 69: 145-64.</u></li> <li>Guarga, J.L. <i>et al.</i> (2002) Evaluation of a specific immunochemotherapy for the</li> </ol>			
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