

Datasheet: MCA1037PE

BATCH NUMBER 165975

Description:	RAT ANTI DOG CD5:RPE
Specificity:	CD5
Format:	RPE
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

Where this antibody 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 as a guide only. It is recommended that the user titrates the antibody for use in their own systems with appropriate negative/positive controls.

Target Species	Dog		
Product Form	Purified IgG conjugat	ed to R. Phycoerythrin	(RPE) - lyophilized
Reconstitution	Reconstitute with 1.0	ml distilled water	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared supernatant	l by affinity chromatog	raphy on Protein G
Buffer Solution	Phosphate buffered s	aline	
Preservative	0.09% sodium azide	(NaN ₃)	
Stabilisers	1% bovine serum alb	umin	
	5% sucrose		

Immunogen	Concanavilin A activated canine peripheral blood cells
RRID	AB_324035
Fusion Partners	Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line
Specificity	Rat anti Dog CD5 antibody, clone YKIX322.3 recognizes canine CD5, a 67 kDa cell surface type 1 transmembrane glycoprotein also known as lymphocyte antigen T1, Ly-1 or Leu-1. CD5 is expressed on the surface of T-cells and thymocytes, CD5 is also expressed by NK cells at low levels (<u>Huang et al. 2008</u>). Rat anti dog CD5, cloneYKIX322.3 was clustered as canine CD5 in the First Canine Leucocyte Antigen Workshop (<u>Cobbold et al. 1994</u>).
	In a study of 73 cases of canine chronic lymphocytic leukemia (CLL) CD5 expression was absent on all cases of B-cell CLL as defined by CD21 expression and lack of CD3 or other T cell antigen expression (<u>Vernau and Moore 1999</u>). Rat anti dog CD5 serves as a useful marker for the discrimination of canine leukemias of differing origins (<u>Deravi et al. 2017</u>).
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	 Cobbold, S/ & Metcalfe, S. (1994) Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). <u>Tissue Antigens. 43 (3): 137-54.</u> Hewicker-Trautwein, M. <i>et al.</i> (1999) Immunocytochemical demonstration of lymphocyte subsets and MHC class II antigen expression in synovial membranes from dogs with rheumatoid arthritis and degenerative joint disease. <u>Vet Immunol Immunopathol. 67 (4): 341-57.</u>
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Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1037PE 20487
Regulatory	For research purposes only.

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)
RAT IgG2a NEGATIVE CONTROL:RPE (MCA6005PE)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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