

Datasheet: MCA1037A488

BATCH NUMBER 1702

Description:	RAT ANTI DOG CD5:Alexa Fluor®488
Specificity:	CD5
Format:	ALEXA FLUOR® 488
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 - 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 as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form Purified IgG conjugated to Alexa Fluor 488 - liquid Max Ex/Em Fluorophore Excitation Max (nm) Emission Max (nr)
Max Ex/Em Fluorophore Excitation Max (nm) Emission Max (nr
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Alexa Fluor®488 495 519
Preparation Purified IgG prepared by affinity chromatography on Protein G supernatant
suffer Solution Phosphate buffered saline
reservative 0.09% Sodium Azide (NaN ₃)
Stabilisers 1% Bovine Serum Albumin
Approx. Protein IgG concentration 0.05mg/ml

Immunogen	Concanavilin A activated canine peripheral blood cells
RRID	AB_10863322
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 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul of whole blood.
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

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1037A488 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 (MCA1212A488)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

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