

Datasheet: DC048

BATCH NUMBER 161555

Description:	RAT ANTI DOG CD4:FITC/CD8:RPE
Specificity:	CD4/CD8
Format:	FITC/RPE
Product Type:	Dual Color Reagent
Clone:	YKIX302.9 / YCATE55.9
Isotype:	Cocktail
Quantity:	100 TESTS

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 using appropriate negative/positive controls.

Antibody Isotypes	FITC reagent: IgG2a (RAT) RPE reagent: IgG1 (RAT)		
Target Species	Dog		
Product Form	Dual Colour combination consisting of FITC conjugated and RPE conjugated monoclonal antibodies mixed in optimal ratio - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
Buffer Solution	Phosphate buffered saline		

Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin
	5% Sucrose
External Database Links	<p>UniProt:</p> <p>P33705 Related reagents</p> <p>P33706 Related reagents</p> <p>Entrez Gene:</p> <p>403931 CD4 Related reagents</p> <p>403157 CD8A Related reagents</p>
RRID	AB_324362
Specificity	<p>Rat anti Canine CD4/CD8 antibodies, clones YKIX302.9 and YCATE55.9 is a dual colour reagent recognising canine CD4 and CD8 cell surface antigens. Clone YKIX302.9 recognises canine CD4, which is expressed by lymphocyte subsets and canine neutrophils.</p> <p>Clone YCATE55.9 recognises CD8α expressed by cytotoxic T cells.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Sakai, M <i>et al.</i> (2006) Phenotypic analysis of hepatic T lymphocytes in a dog with chronic hepatitis. J Vet Med Sci. 68:1219-1221 2. Mie, K. <i>et al.</i> (2016) Change in peripheral blood lymphocyte count in dogs following adoptive immunotherapy using lymphokine-activated T killer cells combined with palliative tumor resection. Vet Immunol Immunopathol. 177: 58-63. 3. Corsetti, S. <i>et al.</i> (2018) Bold personality makes domestic dogs entering a shelter less vulnerable to diseases. PLoS One. 13 (3): e0193794. 4. Hassankhani, M. <i>et al.</i> (2017) The effects of prolonged azathioprine administration on blood cells, lymphocytes and immunoglobulins of Iranian mixed-breed dogs. Ir J Vet Med. 11(4). 361-77.
Storage	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/DC04820487</p>

RegulatoryFor research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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