

Datasheet: DC048

**BATCH NUMBER 169545**

<b>Description:</b>	RAT ANTI DOG CD4:FITC/CD8:RPE
<b>Specificity:</b>	CD4/CD8
<b>Format:</b>	FITC/RPE
<b>Product Type:</b>	Dual Color Reagent
<b>Clone:</b>	YKIX302.9 / YCATE55.9
<b>Isotype:</b>	Cocktail
<b>Quantity:</b>	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](http://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.

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

**Preservative** 0.09% Sodium Azide  
**Stabilisers** 1% Bovine Serum Albumin  
5% Sucrose

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**External Database Links**

**UniProt:**

[P33705](#) [Related reagents](#)  
[P33706](#) [Related reagents](#)

**Entrez Gene:**

[403931](#) CD4 [Related reagents](#)  
[403157](#) CD8A [Related reagents](#)

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**RRID** AB\_324362

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**Specificity**

**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.

Clone YCATE55.9 recognises CD8 $\alpha$  expressed by cytotoxic T cells.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Sakai, M *et al.* (2006) Phenotypic analysis of hepatic T lymphocytes in a dog with chronic hepatitis. [J Vet Med Sci. 68:1219-1221](#)
  2. Mie, K. *et al.* (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. *et al.* (2018) Bold personality makes domestic dogs entering a shelter less vulnerable to diseases. [PLoS One. 13 \(3\): e0193794.](#)
  4. Hassankhani, M. *et al.* (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.](#)
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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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #20487 available at:  
<https://www.bio-rad-antibodies.com/SDS/DC048>  
20487

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**Regulatory**For 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](https://bio-rad-antibodies.com/datasheets)

'M419361:230616'

**Printed on 24 May 2025**

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