

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

UniProt:

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

Entrez Gene:

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

RRID AB_324362

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 α expressed by cytotoxic T cells.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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.

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/DC048>
20487

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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