

## Datasheet: TC014

**BATCH NUMBER 161311**

<b>Description:</b>	ANTI DOG CD3:FITC/CD4:RPE/CD8:Alexa Fluor® 647
<b>Specificity:</b>	CD3/CD4/CD8
<b>Format:</b>	3 Color
<b>Product Type:</b>	Triple Color Reagent
<b>Clone:</b>	CA17.2A12 / YKIX302.9 / YCATE55.9
<b>Isotype:</b>	Cocktail
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

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.

<b>Antibody Isotypes</b>	CD3 FITC reagent: Mouse IgG1 CD4 RPE reagent: Rat IgG2a CD8 Alexa Fluor® 647 reagent: Rat IgG1		
<b>Target Species</b>	Dog		
<b>Product Form</b>	Triple Color combination consisting of FITC, RPE, Alexa Fluor® 647 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>
	Alexa Fluor®647	650	665
	FITC	490	525
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
<b>Buffer Solution</b>	Phosphate buffered saline		

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<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin
	5% Sucrose

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**External Database Links**

**UniProt:**

[P27597](#) [Related reagents](#)

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

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

**Entrez Gene:**

[442981](#) CD3E [Related reagents](#)

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

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

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<b>RRID</b>	AB_808411
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**Specificity**

**Anti Dog CD3:FITC/CD4:RPE/CD8:Alexa Fluor® 647** is a triple color reagent recognizing canine CD3, CD4 and CD8 cell surface antigens. FITC conjugated Mouse anti Canine CD3 antibody, clone CA17.2A12 ([MCA1477F](#)) recognizes canine CD3, expressed by T lymphocytes. RPE conjugated Mouse anti Canine CD4 antibody, clone YKIX 302.9 ([MCA1038PE](#)) recognizes canine CD4, expressed by lymphocyte subsets and canine neutrophils. Alexa Fluor®647 conjugated Mouse anti Canine CD8 antibody, clone YCATE55.9 ([MCA1039A647](#)) recognizes CD8 alpha, expressed by cytotoxic T cells.

**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> 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. Guzera, M. *et al.* (2016) *In Vitro* Influence of Mycophenolic Acid on Selected Parameters of Stimulated Peripheral Canine Lymphocytes. [PLoS One. 11 \(5\): e0154429.](#)
3. Maina, E. *et al.* (2019) Food allergen-specific sublingual immunotherapy modulates peripheral T cell responses of dogs with adverse food reactions. [Vet Immunol Immunopathol. 212: 38-42.](#)
4. Franco-Molina, M.A. *et al.* (2018) Autologous canine immunotherapy: short-time generated dendritic cells loaded with canine transmissible venereal tumor-whole lysate. [Immunopharmacol Immunotoxicol. 40 \(5\): 437-43.](#)
5. Jaensch, S. *et al.* (2022) Clinicopathologic and immunophenotypic features in dogs with presumptive large granular lymphocyte leukaemia [Australian Veterinary Journal. Aug 12 \[Epub ahead of print\].](#)

**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/TC014>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MSE IgG1:FITC/RAT IgG2a:RPE/RAT IgG1:Alexa Fluor® 647 -ve CONTROL \(TC023\)](#)

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