

## Datasheet: TC014

**BATCH NUMBER 156121**

<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		

<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P27597</a>    <a href="#">Related reagents</a></p> <p><a href="#">P33705</a>    <a href="#">Related reagents</a></p> <p><a href="#">P33706</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">442981</a>    CD3E    <a href="#">Related reagents</a></p> <p><a href="#">403931</a>    CD4    <a href="#">Related reagents</a></p> <p><a href="#">403157</a>    CD8A    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_808411
<b>Specificity</b>	<p><b>Anti Dog CD3:FITC/CD4:RPE/CD8:Alexa Fluor® 647</b> is a triple color reagent recognizing canine CD3, CD4 and CD8 cell surface antigens. FITC conjugated Mouse anti Canine CD3 antibody, clone CA17.2A12 (<a href="#">MCA1477F</a>) recognizes canine CD3, expressed by T lymphocytes. RPE conjugated Mouse anti Canine CD4 antibody, clone YKIX 302.9 (<a href="#">MCA1038PE</a>) recognizes canine CD4, expressed by lymphocyte subsets and canine neutrophils. Alexa Fluor®647 conjugated Mouse anti Canine CD8 antibody, clone YCATE55.9 (<a href="#">MCA1039A647</a>) recognizes CD8 alpha, expressed by cytotoxic T cells.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>Sakai, M <i>et al.</i> (2006) Phenotypic analysis of hepatic T lymphocytes in a dog with chronic hepatitis. <a href="#">J Vet Med Sci. 68:1219-1221</a></li> <li>Guzera, M. <i>et al.</i> (2016) <i>In Vitro</i> Influence of Mycophenolic Acid on Selected Parameters of Stimulated Peripheral Canine Lymphocytes. <a href="#">PLoS One. 11 (5): e0154429.</a></li> <li>Maina, E. <i>et al.</i> (2019) Food allergen-specific sublingual immunotherapy modulates peripheral T cell responses of dogs with adverse food reactions. <a href="#">Vet Immunol Immunopathol. 212: 38-42.</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
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product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or [outlicensing@thermofisher.com](mailto:outlicensing@thermofisher.com)

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**Health And Safety Information**      Material Safety Datasheet documentation #20487 available at:  
<https://www.bio-rad-antibodies.com/SDS/TC014>  
20487

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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 \(TC023\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M375715:210104'

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