

Datasheet: TC014

BATCH NUMBER 169531

Description:	ANTI DOG CD3:FITC/CD4:RPE/CD8:Alexa Fluor® 647
Specificity:	CD3/CD4/CD8
Format:	3 Color
Product Type:	Triple Color Reagent
Clone:	CA17.2A12 / YKIX302.9 / YCATE55.9
Isotype:	Cocktail
Quantity:	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.

	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.

Antibody Isotypes	CD3 FITC reagent: Mouse IgG1 CD4 RPE reagent: Rat IgG2a CD8 Alexa Fluor® 647 reagent: Rat IgG1		
Target Species	Dog		
Product Form	Triple Color combination consisting of FITC, RPE, Alexa Fluor® 647 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)
	Alexa Fluor®647	650	665
	FITC	490	525
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
Preparation	Purified IgG from tissue culture supernatant		

Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin 5% Sucrose
External Database Links	<p>UniProt:</p> <p>P27597 Related reagents</p> <p>P33705 Related reagents</p> <p>P33706 Related reagents</p> <p>Entrez Gene:</p> <p>442981 CD3E Related reagents</p> <p>403931 CD4 Related reagents</p> <p>403157 CD8A Related reagents</p>
RRID	AB_808411
Specificity	<p>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.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 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 Guzera, M. <i>et al.</i> (2016) <i>In Vitro</i> Influence of Mycophenolic Acid on Selected Parameters of Stimulated Peripheral Canine Lymphocytes. PLoS One. 11 (5): e0154429. Maina, E. <i>et al.</i> (2019) Food allergen-specific sublingual immunotherapy modulates peripheral T cell responses of dogs with adverse food reactions. Vet Immunol Immunopathol. 212: 38-42. Franco-Molina, M.A. <i>et al.</i> (2018) Autologous canine immunotherapy: short-time generated dendritic cells loaded with canine transmissible venereal tumor-whole lysate. Immunopharmacol Immunotoxicol. 40 (5): 437-43. Jaensch, S.M. <i>et al.</i> (2022) Clinicopathologic and immunophenotypic features in dogs with presumptive large granular lymphocyte leukaemia. Aust Vet J. 100 (11): 527-32. Stokol, T. <i>et al.</i> (2024) Flow cytometric-based detection of CD80 is a useful diagnostic marker of acute myeloid leukemia in dogs. Front Vet Sci. 11: 1405297.
Storage	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</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.

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>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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