

Datasheet: TC014

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
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Target Species	Dog
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Product Form	Triple Color combination consisting of FITC, RPE, Alexa Fluor® 647 conjugated monoclonal antibodies mixed in optimal ratio - lyophilized
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Reconstitution	Reconstitute with 1.0 ml distilled water
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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

Buffer Solution	Phosphate buffered saline
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Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin
	5% Sucrose

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](#)

RRID AB_808411**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 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. 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.

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> 20487

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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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://www.bio-rad-antibodies.com/datasheets)
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