

Datasheet: DC034

Description:	RAT ANTI MOUSE CD4:FITC/CD8:RPE
Specificity:	CD4/CD8
Format:	FITC/RPE
Product Type:	Dual Color Reagent
Clone:	YTS191.1 / KT15
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 system using appropriate negative/positive controls.

Antibody Isotypes	FITC reagent: IgG2b (RAT) RPE reagent: IgG2a (RAT)		
Target Species	Mouse		
Product Form	Dual Colour combination consisting of FITC conjugated and RPE conjugated monoclonal antibodies mixed in optimal ratio - lyophilized		
Reconstitution	Reconstitute with 1 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 Stabilisers	0.09% Sodium Azide		

1% Bovine Serum Albumin

5% Sucrose

External Database Links

UniProt:

[P06332](#) [Related reagents](#)

[P01731](#) [Related reagents](#)

[P10300](#) [Related reagents](#)

Entrez Gene:

[12504](#) Cd4 [Related reagents](#)

[12525](#) Cd8a [Related reagents](#)

[12526](#) Cd8b1 [Related reagents](#)

Synonyms Cd8b1, Ly-3, Lyt2, Lyt-2, Lyt3, Lyt-3

RRID AB_323752

Specificity **Rat anti Mouse CD4:FITC/CD8:RPE dual colour reagent** was developed for the simultaneous recognition of mouse CD4 and CD8 cell surface antigens. Clone YTS191.1 recognises murine CD4, a T cell differentiation antigen expressed on thymocytes and helper/inducer T cells in the peripheral blood. Clone KT15 recognises a non-polymorphic epitope on the murine CD8 alpha chain.

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

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

References

1. Ding, J. *et al.* (2012) Immune responses to a recombinant attenuated *Salmonella typhimurium* strain expressing a *Taenia solium* oncosphere antigen TSOL18. [Comp Immunol Microbiol Infect Dis. 36 \(1\): 17-23.](#)
2. Suszko, A. & Obmińska-Mrukowicz, B. (2013) Influence of polysaccharide fractions isolated from *Caltha palustris* L. on the cellular immune response in collagen-induced arthritis (CIA) in mice. A comparison with methotrexate. [J Ethnopharmacol. 145 \(1\): 109-17.](#)
3. Lis, M. *et al.* (2013) Modulatory effects of bestatin on T and B lymphocyte subsets and the concentration of cytokines released by Th1/Th2 lymphocytes in cyclophosphamide-treated mice [Centr Eur J Immunol 38: 42-53](#)
4. Zimecki, M. *et al.* (2015) Immune function in cyclophosphamide-treated mice is restored by the T-cell-tropic isoxazole derivative R-13. [J Immunotoxicol. 12 \(4\): 322-9.](#)
5. Aravind, S. *et al.* (2015) Protective effects of recombinant glycoprotein D based prime boost approach against duck enteritis virus in mice model. [Microb Pathog. 88: 78-86.](#)
6. Piekarska, J. *et al.* (2018) Effects of iridoid-anthocyanin extract of *Cornus mas* L. on hematological parameters, population and proliferation of lymphocytes during experimental infection of mice with *Trichinella spiralis*. [Exp Parasitol. 188: 58-64.](#)
7. Szczypka, M. *et al.* (2020) Selegiline and clomipramine effects on lymphocyte subsets,

regulatory T cells and sheep red blood cell (SRBC)-induced humoral immune response after in vivo administration in mice. [Eur J Pharmacol. 887: 173560.](#)

8. Piekarska, J. *et al.* (2020) Effect of aqueous extract from *Scutellaria baicalensis* Georgi roots on CD4+ and CD8+ T cell responses during experimental infection with *Trichinella spiralis* in mice. [Pol J Vet Sci. 23 \(4\): 501-10.](#)

9. Piekarska, J. *et al.* (2022) Evaluation of Immunotropic Activity of Iridoid-Anthocyanin Extract of Honeysuckle Berries (*Lonicera caerulea* L.) in the Course of Experimental Trichinellosis in Mice. [Molecules. 27 \(6\): 1949.](#)

10. Obmińska-Mrukowicz, B. *et al.* (2020) Effects of yolkin on the immune response of mice and its plausible mechanism of action. [Immunol Lett. 220: 21-31.](#)

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/DC034>
20487

Regulatory For research purposes only

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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