

Datasheet: DC035

Description:	RAT ANTI MOUSE CD19:FITC/CD3:RPE
Specificity:	CD19/CD3
Format:	FITC/RPE
Product Type:	Dual Color Reagent
Clone:	6D5/KT3
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: IgG2a (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:

[P11942](#) [Related reagents](#)
[P29020](#) [Related reagents](#)
[P24161](#) [Related reagents](#)
[P25918](#) [Related reagents](#)
[P22646](#) [Related reagents](#)
[P04235](#) [Related reagents](#)

Entrez Gene:

[12502](#) Cd3g [Related reagents](#)
[12503](#) Cd247 [Related reagents](#)
[12478](#) Cd19 [Related reagents](#)
[12500](#) Cd3d [Related reagents](#)
[12501](#) Cd3e [Related reagents](#)
[12503](#) Cd247 [Related reagents](#)

Synonyms Cd3z, T3d, Tcrz

RRID AB_324076

Specificity **Rat anti Mouse CD19:FITC/CD3:RPE dual color reagent** is a dual colour reagent recognising mouse CD19 and CD3.

Clone 6D5 recognises murine CD19, a ~95 kDa cell surface glycoprotein expressed by B lymphocytes.

Clone KT3 recognises murine CD3, a cell surface glycoprotein expressed by mature T cells.

Flow Cytometry Use 10ul of the suggested working dilution to label 10^6 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](#)).

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- References**
1. Tomonari, K. (1988) A rat antibody against a structure functionally related to the mouse T-cell receptor/T3 complex. [Immunogenetics. 28 \(6\): 455-8.](#)
 2. Stables, M.J. *et al.* (2010) Priming innate immune responses to infection by cyclooxygenase inhibition kills antibiotic-susceptible and -resistant bacteria. [Blood. 116 \(16\): 2950-9.](#)
 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. 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.](#)

5. Drynda, A. *et al.* (2016) Immunoregulatory effects of 4-(4-chlorophenyl)-1-(5-amino-3-methylisoxazole-4-carbonyl)-thiosemicarbazide (06K) in non-immunized and SRBC-immunized mice. [J Pharm Pharmacol. Oct 26. \[Epub ahead of print\]](#)

6. 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.](#)

7. 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 \(6\)Mar 17 \[Epub ahead of print\].](#)

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

Health And Safety Information Material Safety Datasheet documentation #20487 available at: 20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a:FITC/RAT IgG2a:RPE NEGATIVE CONTROL \(DC036\)](#)

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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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