

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 - lyophilised.

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

0.09% Sodium Azide

Stabilisers

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

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 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. 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.](#)

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.

Shelf Life 12 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10075 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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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