

## Datasheet: DC041

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|----------------------|---------------------------------|
| <b>Description:</b>  | MOUSE ANTI RAT CD3:FITC/CD4:RPE |
| <b>Specificity:</b>  | CD3/CD4                         |
| <b>Format:</b>       | FITC/RPE                        |
| <b>Product Type:</b> | Dual Color Reagent              |
| <b>Clone:</b>        | IF4 : W3/25                     |
| <b>Isotype:</b>      | Cocktail                        |
| <b>Quantity:</b>     | 100 TESTS                       |

## Product Details

**RRID** AB\_324613

**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](http://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: IgM (MOUSE)  
RPE reagent: IgG1 (MOUSE)

**Target Species** Rat

**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:**

[P19377](#)    [Related reagents](#)  
[Q64159](#)    [Related reagents](#)  
[P05540](#)    [Related reagents](#)

**Entrez Gene:**

[25710](#)    Cd3d    [Related reagents](#)  
[300678](#)    Cd3g    [Related reagents](#)  
[24932](#)    Cd4    [Related reagents](#)

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**Synonyms**            T3d

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**Specificity**            **Dual colour reagent Mouse anti Rat CD3 and CD4 antibodies** is a combination of monoclonal antibodies recognizing rat CD3 and CD4 cell surface antigens.

Mouse anti Rat CD3 antibody, clone IF4 recognizes rat CD3, a cell surface glycoprotein expressed by mature T lymphocytes.

Mouse anti Rat CD4 antibody, clone W3/25 recognizes rat CD4, a ~55 kDa glycoprotein expressed by helper T lymphocytes, thymocytes and macrophages.

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**Flow Cytometry**        Use 10ul of the suggested working dilution to label 10<sup>6</sup> cell in 100ul.

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**References**

1. Tanaka, T. *et al.* (1989) Characterization of a CD3-like rat T cell surface antigen recognized by a monoclonal antibody. [J Immunol. 142 \(8\): 2791-5.](#)
2. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. [Immunology. 42 \(4\): 593-600.](#)
3. Zschemisch, N.H. *et al.* (2012) Zinc-finger nuclease mediated disruption of Rag1 in the LEW/Ztm rat. [BMC Immunol. 13: 60.](#)
4. Rivera de Jesus, E, *et al.* (2016) Adoptive Transfer of Dendritic Cells Expressing Fas Ligand Modulates Intestinal Inflammation in a Model of Inflammatory Bowel Disease. [Journal of Clinical & Cellular Immunology. 7: 411.](#)

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**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.

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**Guarantee**                12 months from date of reconstitution.

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

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**Regulatory**                For research purposes only

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