

Datasheet: DC041

Description:	MOUSE ANTI RAT CD3:FITC/CD4:RPE
Specificity:	CD3/CD4
Format:	FITC/RPE
Product Type:	Dual Color Reagent
Clone:	IF4 : W3/25
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: 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 - 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:

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

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

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

Entrez Gene:

[25710](#) Cd3d [Related reagents](#)

[300678](#) Cd3g [Related reagents](#)

[24932](#) Cd4 [Related reagents](#)

Synonyms T3d

RRID AB_324613

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.

Flow Cytometry Use 10ul of the suggested working dilution to label 10^6 cell in 100ul.

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.](#)

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>

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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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