

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 - 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](#)

Synonyms

T3d

Specificity

Dual colour reagent Mouse anti Rat CD3 and CD4 antibodies is a combination of monoclonal antibodies recognising 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 recognises 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 10⁶ cell in 100ul.

References

1. Tanaka, T. *et al.* (1989) Characterization of a CD3-like rat T cell surface antigen recognised by a monoclonal antibody. [Immunology. 142: 2791 - 2795.](#)
2. Barclay, A. N. *et al.* (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. [Immunology. 42: 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.

Shelf Life

12 months from date of reconstitution.

Health And Safety Information

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

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

'M308850:170816'

Printed on 01 May 2018

