

Datasheet: DC042

Description:	MOUSE ANTI RAT CD3:FITC/CD8:RPE
Specificity:	CD3/CD8
Format:	FITC/RPE
Product Type:	Dual Color Reagent
Clone:	IF4/OX-8
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](#)

[P07725](#) [Related reagents](#)

[P05541](#) [Related reagents](#)

Entrez Gene:

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

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

[24930](#) Cd8a [Related reagents](#)

[24931](#) Cd8b [Related reagents](#)

Synonyms

Cd8b1, T3d

Specificity

DC042 is a dual colour reagent recognising rat CD3 and CD8 cell surface antigens.

Clone IF4 recognises rat CD3, a cell surface glycoprotein expressed by mature T lymphocytes. Clone OX8 recognises rat CD8, a cell surface glycoprotein expressed by thymocytes and by the suppressor/cytotoxic subset of peripheral blood T cells.

CD8 expression has also been reported upon rat macrophages.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Tanaka, T. *et al.* (1989) Characterization of CD3-like rat T cell surface antigen recognised by a monoclonal antibody. [J. Immunol. 142: 2791 - 2795.](#)
2. Brideau, R. J. *et al.* (1980) Two subsets of rat T lymphocytes defined with monoclonal antibodies. [J. Immunol. 10: 609 - 615.](#)
3. Zschemisch, N.H. *et al.* (2012) Zinc-finger nuclease mediated disruption of Rag1 in the LEW/Ztm rat. [BMC Immunol. 13: 60.](#)

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

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