

Datasheet: DC040

Description:	MOUSE ANTI RAT CD4:FITC/CD25:RPE
Specificity:	CD4/CD25
Format:	FITC/RPE
Product Type:	Dual Color Reagent
Clone:	W3/25/OX-39
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: IgG1 (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	Emission Max (nm)	Excitation Max (nm)
FITC	525	490
RPE 488nm laser	578	496
RPE 561nm laser	578	546

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide

Stabilisers

1% Bovine Serum Albumin
5% Sucrose

External Database

Links

UniProt:

[P05540](#)

[Related reagents](#)

[P26897](#) [Related reagents](#)

Entrez Gene:

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

[25704](#) Il2ra [Related reagents](#)

Specificity

Mouse anti Rat CD4:FITC/CD25:RPE dual color reagent is a dual colour reagent designed to allow the simultaneous enumeration of cells expressing the rat CD4 and CD25 cell surface antigens.

Clone W3/25 recognises rat CD4, a T cell differentiation antigen expressed by helper T lymphocytes and weakly by monocytes. Clone OX-39 recognises rat CD25, a ~55 kDa glycoprotein expressed by activated T lymphocytes.

Flow Cytometry

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

References

1. Barclay, A. N. *et al.* (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. [Immunol. 42: 593-600.](#)
2. Paterson, D. J. *et al.* (1987) Antigens of activated rat T lymphocytes including a molecule of 50,000 mr, detected only on CD4 positive T blasts. [Mol. Immunol. 24: 1281 - 1290.](#)
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

Related Products

Recommended Negative Controls

[MOUSE IgG1:FITC/MOUSE IgG1:RPE NEGATIVE CONTROL \(DC045\)](#)

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