

## Datasheet: DC040

<b>Description:</b>	MOUSE ANTI RAT CD4:FITC/CD25:RPE
<b>Specificity:</b>	CD4/CD25
<b>Format:</b>	FITC/RPE
<b>Product Type:</b>	Dual Color Reagent
<b>Clone:</b>	W3/25 / OX-39
<b>Isotype:</b>	Cocktail
<b>Quantity:</b>	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](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.

<b>Antibody Isotypes</b>	FITC reagent: IgG1 (MOUSE) RPE reagent: IgG1 (MOUSE)		
<b>Target Species</b>	Rat		
<b>Product Form</b>	Dual Colour combination consisting of FITC conjugated and RPE conjugated monoclonal antibodies mixed in optimal ratio - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide		

1% Bovine Serum Albumin

5% Sucrose

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**External Database  
Links**

**UniProt:**

[P05540](#)

[Related reagents](#)

[P26897](#)

[Related reagents](#)

**Entrez Gene:**

[24932](#)

Cd4

[Related reagents](#)

[25704](#)

Il2ra

[Related reagents](#)

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**RRID**

AB\_324136

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**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.

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**Flow Cytometry**

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

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**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 \(12\): 1281-90.](#)
3. Zschemisch, N.H. *et al.* (2012) Zinc-finger nuclease mediated disruption of Rag1 in the LEW/Ztm rat. [BMC Immunol. 13: 60.](#)

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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 despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #20487 available at:  
<https://www.bio-rad-antibodies.com/SDS/DC040>  
20487

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

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

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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://bio-rad-antibodies.com/datasheets)

'M419360:230616'

**Printed on 12 Aug 2023**

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