

# Datasheet: MCA1260PE

**BATCH NUMBER 157537**

<b>Description:</b>	RAT ANTI MOUSE CD25:RPE
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2R ALPHA CHAIN
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	PC61.5.3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.5 ml

## 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>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.02% Sodium Azide		
	0.5% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		

Immunogen	B6.1 CTL cell line.
External Database Links	<p><b>UniProt:</b>  <a href="#">P01590</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">16184</a>    Il2ra    <a href="#">Related reagents</a></p>
Synonyms	Il2r
RRID	AB_321537
Fusion Partners	Spleen cells from immunized OFA rats were fused with cells of the P3X63Ag8.653 mouse myeloma cell line.
Specificity	<b>Rat anti Mouse CD25 antibody, clone PC61.5.3</b> reacts with the low affinity alpha chain of the interleukin-2 receptor present on activated T and B cells in mice. Rat anti Mouse CD25 antibody, clone PC61.5.3 is reported to inhibit IL-2 binding and IL-2 dependent proliferation.
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/B</a>).</p>
References	<ol style="list-style-type: none"> <li>Moreau, J.L. <i>et al.</i> (1987) Monoclonal antibodies identify three epitope clusters on the mouse p55 subunit of the interleukin 2 receptor: relationship to the interleukin 2-binding site. <a href="#">Eur J Immunol. 17 (7): 929-35.</a></li> <li>Hashimoto, N. <i>et al.</i> (1986) Dissociation of interleukin 2-dependent and -independent B cell proliferation with monoclonal anti-interleukin 2 receptor antibody. <a href="#">Eur J Immunol. 16 (3): 317-20.</a></li> <li>Lowenthal, J.W. <i>et al.</i> (1985) High and low affinity IL 2 receptors: analysis by IL 2 dissociation rate and reactivity with monoclonal anti-receptor antibody PC61. <a href="#">J Immunol. 135 (6): 3988-94.</a></li> <li>Ceredig, R. <i>et al.</i> (1985) Expression of interleukin-2 receptor as a differentiation marker on intrathymic stem cells. <a href="#">Nature 314: 98-100.</a></li> <li>Yaqoob, P. &amp; Calder, P.C. (1997) Glutamine requirement of proliferating T lymphocytes. <a href="#">Nutrition. 13 (7-8): 646-51.</a></li> <li>Scotland, R.S. <i>et al.</i> (2011) Sex differences in resident immune cell phenotype underlie more efficient acute inflammatory responses in female mice. <a href="#">Blood. 118 (22): 5918-27.</a></li> <li>Karali, D. <i>et al.</i> (2016) T cell regulation by <i>Phlomis lanata</i> protein extracts in mice. <a href="#">Pharm Biol. 54 (2): 207-14.</a></li> <li>Szuster-Ciesielska, A. <i>et al.</i> (2019) Immunogenic Evaluation of Ribosomal P-Protein Antigen P0, P1, and P2 and Pentameric Protein Complex P0-(P1-P2)<sub>2</sub> of <i>Plasmodium falciparum</i> in a Mouse Model. <a href="#">J Immunol Res. 2019: 9264217.</a></li> <li>Curina, G. <i>et al.</i> (2018) Evaluation of immune responses in mice and sheep inoculated with a live attenuated <i>Brucella melitensis</i>. REV1 vaccine produced in bioreactor. <a href="#">Vet</a></li> </ol>

[Immunol Immunopathol. 198: 44-53.](#)

10. Arad, T. *et al.* (2021) CD200 -dependent and -independent immune-modulatory functions of neural stem cells. [Stem Cell Res. 56: 102559.](#)

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**Storage**

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**

6 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1260PE>  
10041

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**North & South America**

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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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