

## Datasheet: MCA1260A700

<b>Description:</b>	RAT ANTI MOUSE CD25:Alexa Fluor® 700
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2R ALPHA CHAIN
<b>Format:</b>	ALEXA FLUOR® 700
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	PC61.5.3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## 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 Alexa Fluor® 700 - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®700</td> <td>702</td> <td>723</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®700	702	723
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®700	702	723					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.09% Sodium Azide						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05mg/ml						
<b>Immunogen</b>	B6.1 CTL cell line.						
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P01590</a> <a href="#">Related reagents</a>						

**Entrez Gene:**

[16184](#) IL2ra [Related reagents](#)

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<b>Synonyms</b>	IL2r
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<b>Fusion Partners</b>	Spleen cells from immunized OFA rats were fused with cells of the P3X63Ag8.653 mouse myeloma cell line.
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<b>Specificity</b>	<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.
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.  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> ).
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<b>References</b>	<ol style="list-style-type: none"><li>1. 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>2. 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>3. 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>4. 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>5. Yaqoob, P. &amp; Calder, P.C. (1997) Glutamine requirement of proliferating T lymphocytes. <a href="#">Nutrition. 13 (7-8): 646-51.</a></li><li>6. 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>7. 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></ol>
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<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety</b>	Material Safety Datasheet documentation #10041 available at:
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**Information** 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:Alexa Fluor® 700 \(MCA1211A700\)](#)

### Recommended Useful Reagents

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

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

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