

Datasheet: MCA1260A647

Description:	RAT ANTI MOUSE CD25:Alexa Fluor® 647
Specificity:	CD25
Other names:	IL-2R ALPHA CHAIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	PC61.5.3
Isotype:	IgG1
Quantity:	100 TESTS/1ml

Product Details

RRID AB_10614176

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 - 1/2

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.

Target Species Mouse

Product Form Purified IgG conjugated to Alexa Fluor® 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

Preparation Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide (NaN₃)
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05mg/ml

Immunogen B6.1 CTL cell line.

External Database Links **UniProt:**

Entrez Gene:

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

Synonyms	IL2r
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Fusion Partners	Spleen cells from immunized OFA rats were fused with cells of the P3X63Ag8.653 mouse myeloma cell line.
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Specificity	Rat anti Mouse CD25 antibody, clone PC61.5.3 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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Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 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 (BUF041A/B).
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References	<ol style="list-style-type: none">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. Eur J Immunol. 17 (7): 929-35.2. Hashimoto, N. <i>et al.</i> (1986) Dissociation of interleukin 2-dependent and -independent B cell proliferation with monoclonal anti-interleukin 2 receptor antibody. Eur J Immunol. 16 (3): 317-20.3. 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. J Immunol. 135 (6): 3988-94.4. Ceredig, R. <i>et al.</i> (1985) Expression of interleukin-2 receptor as a differentiation marker on intrathymic stem cells. Nature 314: 98-100.5. Yaqoob, P. & Calder, P.C. (1997) Glutamine requirement of proliferating T lymphocytes. Nutrition. 13 (7-8): 646-51.6. Scotland, R.S. <i>et al.</i> (2011) Sex differences in resident immune cell phenotype underlie more efficient acute inflammatory responses in female mice. Blood. 118 (22): 5918-27.7. Karali, D. <i>et al.</i> (2016) T cell regulation by <i>Phlomis lanata</i> protein extracts in mice. Pharm Biol. 54 (2): 207-14.
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Storage	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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Guarantee	18 months from date of despatch.
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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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

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