

## Datasheet: MCA1260SBY720

**BATCH NUMBER 100007311**

<b>Description:</b>	RAT ANTI MOUSE CD25:StarBright Yellow 720
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2R ALPHA CHAIN
<b>Format:</b>	StarBright Yellow 720
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	PC61.5.3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/0.5ml

### 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 product 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 product for use in their own system using appropriate negative/positive controls.

#### Target Species

Mouse

#### Product Form

Purified IgG conjugated to StarBright Yellow 720 - liquid

#### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
StarBright Yellow 720	548	719

#### Preparation

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

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)  
1% Bovine Serum Albumin  
0.1% Pluronic F68  
0.1% PEG 3350

0.05% Tween 20

---

**Immunogen** B6.1 CTL cell line.

---

**External Database Links**

**UniProt:**

[P01590](#)    [Related reagents](#)

**Entrez Gene:**

[16184](#)    Il2ra    [Related reagents](#)

---

**Synonyms** Il2r

---

**Fusion Partners** Spleen cells from immunized OFA rats were fused with cells of the P3X63Ag8.653 mouse myeloma cell line.

---

**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.

---

**Flow Cytometry** Use 5µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

---

**References**

1. Moreau, J.L. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2016) T cell regulation by *Phlomis lanata* protein extracts in mice. [Pharm Biol. 54 \(2\): 207-14.](#)
8. Szuster-Ciesielska, A. *et al.* (2019) Immunogenic Evaluation of Ribosomal P-Protein Antigen P0, P1, and P2 and Pentameric Protein Complex P0-(P1-P2)<sub>2</sub> of *Plasmodium falciparum* in a Mouse Model. [J Immunol Res. 2019: 9264217.](#)
9. Curina, G. *et al.* (2018) Evaluation of immune responses in mice and sheep inoculated with a live attenuated *Brucella melitensis*. REV1 vaccine produced in bioreactor. [Vet 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.](#)

11. Roca, C.P. *et al.* (2023) A cross entropy test allows quantitative statistical comparison of t-SNE and UMAP representations [Cell Reports Methods. 3 \(1\): 100390.](#)

---

<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1260SBY720">https://www.bio-rad-antibodies.com/SDS/MCA1260SBY720</a> 20471
<b>Regulatory</b>	For research purposes only

---

## Related Products

### Recommended Useful Reagents

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)

'M416108:230130'

**Printed on 15 May 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)