![Bio-Rad logo]

# Datasheet: MCA1260SBY605

## BATCH NUMBER 100007418

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| **Description:** | RAT ANTI MOUSE CD25:StarBright Yellow 605 |
| **Specificity:** | CD25 |
| **Other names:** | IL-2R ALPHA CHAIN |
| **Format:** | StarBright Yellow 605 |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | PC61.5.3 |
| **Isotype:** | IgG1 |
| **Quantity:** | 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.

| | 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 605 - liquid

**Max Ex/Em**

| Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|---|---|---|
| StarBright Yellow 605 | 572 | 606 |

**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 ($NaN_3$)
1% Bovine Serum Albumin
0.1% Pluronic F68
0.1% PEG 3350

0.05% Tween 20

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

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| **External Database Links** | **UniProt:**<br><br>P01590     Related reagents<br><br>**Entrez Gene:**<br><br>16184   Il2ra   Related reagents |

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| **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 5µl of the suggested working dilution to label $10^6$ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application. |

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| **References** | 1. Ceredig, R. *et al*. (1985) Expression of interleukin-2 receptor as a differentiation marker on intrathymic stem cells. Nature 314: 98-100.<br>2. 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.<br>3. 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.<br>4. 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.<br>5. Yaqoob, P. & Calder, P.C. (1997) Glutamine requirement of proliferating T lymphocytes. Nutrition. 13 (7-8): 646-51.<br>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.<br>7. Karali, D. *et al.* (2016) T cell regulation by *Phlomis lanata* protein extracts in mice. Pharm Biol. 54 (2): 207-14.<br>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)$_2$ of *Plasmodium falciparum* in a Mouse Model. J Immunol Res. 2019: 9264217.<br>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.<br>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.

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| **Storage** | Store at +4°C.<br>DO NOT FREEZE.<br>This product should be stored undiluted. |
| **Guarantee** | 12 months from date of despatch |
| **Acknowledgements** | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts |
| **Health And Safety Information** | Material Safety Datasheet documentation #20471 available at:<br>https://www.bio-rad-antibodies.com/SDS/MCA1260SBY605<br>20471 |
| **Regulatory** | For research purposes only |

# Related Products

## Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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