

# Datasheet: MCA1260SBUV795

**BATCH NUMBER 64770602**

|                      |                                                |
|----------------------|------------------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD25:StarBright UltraViolet 795 |
| <b>Specificity:</b>  | CD25                                           |
| <b>Other names:</b>  | IL-2R ALPHA CHAIN                              |
| <b>Format:</b>       | StarBright UltraViolet 795                     |
| <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 (1) | ▪   |    |                | 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.

**(1)Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.**

|                        |                                                                                               |                            |                          |
|------------------------|-----------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| <b>Target Species</b>  | Mouse                                                                                         |                            |                          |
| <b>Product Form</b>    | Purified IgG conjugated to StarBright UltraViolet 795 - liquid                                |                            |                          |
| <b>Max Ex/Em</b>       | <b>Fluorophore</b>                                                                            | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                        | StarBright UltraViolet 795                                                                    | 340                        | 792                      |
| <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 Stabilisers</b>       | 0.09% sodium azide (NaN <sub>3</sub> )<br>1% bovine serum albumin<br>0.1% Pluronic F68<br>0.1% PEG 3350<br>0.05% Tween 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Approx. Protein Concentrations</b> | For information on the concentration of our StarBright Dye conjugated reagents please visit our <a href="#">FAQ</a> page.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>                      | B6.1 CTL cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>External Database Links</b>        | <b>UniProt:</b><br><a href="#">P01590</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">16184</a> IL2ra <a href="#">Related reagents</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>                       | IL2r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Fusion Partners</b>                | Spleen cells from immunized OFA rats were fused with cells of the P3X63Ag8.653 mouse myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Flow Cytometry</b>                 | Use 5µl of the suggested working dilution to label 0.5x10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. 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>2. 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>3. 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>4. 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>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>                       | This product is shipped at ambient temperature.<br>Store at +4°C.<br>DO NOT FREEZE.<br>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/MCA1260SBUV795">https://www.bio-rad-antibodies.com/SDS/MCA1260SBUV795</a> |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                             |

## Related Products

### Recommended Useful Reagents

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

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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