

# Datasheet: MCA88SBUV770

**BATCH NUMBER 64736185**

|                      |                                                    |
|----------------------|----------------------------------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD45RA:StarBright UltraViolet 770 |
| <b>Specificity:</b>  | CD45RA                                             |
| <b>Format:</b>       | StarBright UltraViolet 770                         |
| <b>Product Type:</b> | Monoclonal Antibody                                |
| <b>Clone:</b>        | F8-11-13                                           |
| <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           | Human                                                                                                                                                                                                                                                                                                                      |                     |                   |
| Species Cross Reactivity | Reacts with: Rhesus Monkey<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. |                     |                   |
| Product Form             | Purified IgG conjugated to StarBright UltraViolet 770 - liquid                                                                                                                                                                                                                                                             |                     |                   |
| Max Ex/Em                | Fluorophore                                                                                                                                                                                                                                                                                                                | Excitation Max (nm) | Emission Max (nm) |
|                          | StarBright UltraViolet 770                                                                                                                                                                                                                                                                                                 | 340                 | 765               |
| Preparation              | Purified IgG prepared by affinity chromatography on protein A 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>                      | Human T lymphocytes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P08575</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">5788</a>    PTPRC    <a href="#">Related reagents</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>                       | CD45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Fusion Partners</b>                | Spleen cells from immunized BALB/c mouse were fused with cells of the NS-1 mouse myeloma cell line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Specificity</b>                    | <p><b>Mouse anti Human CD45RA antibody, clone F8-11-13</b> recognizes the human CD45RA cell surface antigen.</p> <p>CD45 is a complex molecule existing in a number of isoforms. Antibodies recognizing a common epitope on all of these isoforms are termed CD45 whilst those recognizing only individual isoforms are termed CD45RA or CD45RO etc.</p> <p>Mouse anti Human CD45RA antibody, clone F8-11-13 reacts with the high molecular weight form of the leucocyte common antigen (LCA) expressed by B lymphocytes and a subset of T lymphocytes.</p> <p>Mouse anti Human CD45RA antibody, clone F8-11-13 is routinely tested in flow cytometry on human peripheral blood lymphocytes.</p> |
| <b>Flow Cytometry</b>                 | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. O'Grady, J.T. <i>et al.</i> (1994) CD40 expression in Hodgkin's disease. <a href="#">Am J Pathol. 144 (1): 21-6.</a></li> <li>2. Franitza, S. <i>et al.</i> (2002) TGF-beta1 enhances SDF-1alpha-induced chemotaxis and homing of naive T cells by up-regulating CXCR4 expression and downstream cytoskeletal effector molecules. <a href="#">Eur J Immunol. 32 (1): 193-202.</a></li> <li>3. Leigh, J.E. <i>et al.</i> (2006) Characterization of the immune status of CD8+ T cells in oral</li> </ol>                                                                                                                                                |

lesions of human immunodeficiency virus-infected persons with oropharyngeal Candidiasis. [Clin Vaccine Immunol. 13 \(6\): 678-83.](#)

4. Hunt, L. *et al.* (2016) T cell subsets: an immunological biomarker to predict progression to clinical arthritis in ACPA-positive individuals. [Ann Rheum Dis. 75 \(10\): 1884-9.](#)

5. Ibana, J.A. *et al.* (2012) The major CD8 T cell effector memory subset in the normal and *Chlamydia trachomatis*-infected human endocervix is low in perforin. [BMC Immunol. 13: 66.](#)

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7. Balogh, L. *et al.* (2022) The Effect of Aerobic Exercise and Low-Impact Pilates Workout on the Adaptive Immune System. [J Clin Med. 11 \(22\): 6814.](#)

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10. Thon, T. *et al.* (2025) Skin and gut microbiota composition and immune regulatory response differentiate IgE and non-IgE cow's milk allergy patients with atopic dermatitis. [iScience. 28 \(12\): 113943.](#)

11. Ling, L. *et al.* (2023) Loss of *In Vivo* Replication Fitness of HIV-1 Variants Resistant to the Tat Inhibitor, dCA. [Viruses. 15 \(4\): 950.](#)

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|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage                       | Store at +4°C. 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: <a href="https://www.bio-rad-antibodies.com/SDS/MCA88SBUV770">https://www.bio-rad-antibodies.com/SDS/MCA88SBUV770</a> |
| Regulatory                    | For research purposes only                                                                                                                                                         |

## Related Products

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)  
[HUMAN SEROBLOCK \(BUF070B\)](#)

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)  
'M450783:260528'

Printed on 10 Jul 2026