

## Datasheet: MCA1194SBB810

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| <b>Description:</b>  | MOUSE ANTI HUMAN CD2:StarBright Blue 810 |
| <b>Specificity:</b>  | CD2                                      |
| <b>Other names:</b>  | LFA-2                                    |
| <b>Format:</b>       | StarBright Blue 810                      |
| <b>Product Type:</b> | Monoclonal Antibody                      |
| <b>Clone:</b>        | LT2                                      |
| <b>Isotype:</b>      | IgG2b                                    |
| <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, Chimpanzee, Cynomolgus monkey

**N.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 Blue 810 - liquid

#### Max Ex/Em

| Fluorophore         | Excitation Max (nm) | Emission Max (nm) |
|---------------------|---------------------|-------------------|
| StarBright Blue 810 | 477                 | 802               |

#### Preparation

Purified IgG prepared by affinity chromatography on DEAE from ascites

#### Buffer Solution

Phosphate buffered saline

|                                |   |
|--------------------------------|---|
| <b>Preservative</b>            | 0.09% sodium azide (NaN <sub>3</sub> )  |
| <b>Stabilisers</b>             | 1% bovine serum albumin<br>0.1% Pluronic F68<br>0.1% PEG 3350<br>0.05% Tween 20   |
| <b>Immunogen</b>               | Normal human peripheral blood lymphocytes.  |
| <b>External Database Links</b> | <b>UniProt:</b><br><a href="#">P06729</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">914</a> CD2 <a href="#">Related reagents</a>   |
| <b>Synonyms</b>                | SRBC  |
| <b>Fusion Partners</b>         | Spleen cells from immunized BALB/c mice were fused with cells of the mouse X63.653 myeloma cell line.   |
| <b>Specificity</b>             | <b>Mouse anti Human CD2 antibody, clone LT2</b> recognizes human CD2, a single chain transmembrane glycoprotein of 50 kDa, expressed by T cells, NK cells and thymocytes.<br><br>CD2 is a receptor for CD58 (LFA-3), and is important in mediating the interaction between T cells and target cells or antigen presenting cells.<br><br>Mouse anti Human CD2 antibody, clone LT2 inhibits NK cell mediated cytotoxicity, and ConA and PHA mediated blast transformation.  |
| <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>              | 1. Lin, C.W. <i>et al.</i> (2005) CD94 1A transcripts characterize lymphoblastic lymphoma/leukemia of immature natural killer cell origin with distinct clinical features. <a href="#">Blood. 106 (10): 3567-74.</a><br>2. Kap, Y.S. <i>et al.</i> (2009) A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates. <a href="#">J Histochem Cytochem. 57: 1159-67.</a><br>3. Bruger, A.M. <i>et al.</i> (2020) Protocol to assess the suppression of T-cell proliferation by human MDSC. <a href="#">Methods Enzymol. 632: 155-92.</a> |
| <b>Further Reading</b>         | 1. Moingeon, P. <i>et al.</i> (1989) The structural biology of CD2. <a href="#">Immunol Rev. 111: 111-44.</a><br>2. Beyers, A.D. <i>et al.</i> (1989) Activation of T lymphocytes via monoclonal antibodies against rat cell surface antigens with particular reference to CD2 antigen. <a href="#">Immunol Rev. 111: 59-77.</a>  |
| <b>Storage</b>                 | Store at +4°C.<br>DO NOT FREEZE.  |

This product should be stored undiluted.

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| <b>Guarantee</b> | 12 months from date of despatch |
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|-------------------------|---|
| <b>Acknowledgements</b> | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20471 available at:<br><a href="https://www.bio-rad-antibodies.com/SDS/MCA1194SBB810">https://www.bio-rad-antibodies.com/SDS/MCA1194SBB810</a><br>20471 |
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|                   |                            |
|-------------------|----------------------------|
| <b>Regulatory</b> | For research purposes only |
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## Related Products

### Recommended Useful Reagents

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

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

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

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

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