

## Datasheet: MCA1194SBV440

**BATCH NUMBER 100004788**

|                      |  |
|----------------------|--|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD2:StarBright Violet 440 |
| <b>Specificity:</b>  | CD2  |
| <b>Other names:</b>  | LFA-2                                      |
| <b>Format:</b>       | StarBright Violet 440                      |
| <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 Violet 440 - liquid

#### Max Ex/Em

| Fluorophore           | Excitation Max (nm) | Emission Max (nm) |
|-----------------------|---------------------|-------------------|
| StarBright Violet 440 | 385                 | 438               |

#### Preparation

Purified IgG prepared by affinity chromatography on Protein A

#### Buffer Solution

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   |
| <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 immunised 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 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.   |
| <b>References</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><br>3. 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>4. 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> |
| <b>Storage</b>                  | Store at +4°C. 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

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**Health And Safety Information**      Material Safety Datasheet documentation #20438 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1194SBV440>  
20438

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Useful Reagents

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

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

**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://www.bio-rad-antibodies.com/datasheets)

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