

## Datasheet: MCA503SBV515

**BATCH NUMBER 100008233**

|                      |   |
|----------------------|---|
| <b>Description:</b>  | RAT ANTI HUMAN CD18:StarBright Violet 515 |
| <b>Specificity:</b>  | CD18                                      |
| <b>Other names:</b>  | INTEGRIN BETA 2 CHAIN                     |
| <b>Format:</b>       | StarBright Violet 515                     |
| <b>Product Type:</b> | Monoclonal Antibody                       |
| <b>Clone:</b>        | YFC118.3                                  |
| <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: Dog, Guinea Pig

**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 515 - liquid

| Max Ex/Em | Fluorophore           | Excitation Max (nm) | Emission Max (nm) |
|-----------|-----------------------|---------------------|-------------------|
|           | StarBright Violet 515 | 402                 | 516               |

#### Preparation

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>Immunogen</b>                | Human neutrophils   |
| <b>External Database Links</b>  | <p><b>UniProt:</b><br/> <a href="#">P05107</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">3689</a>    ITGB2    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                 | CD18, MFI7  |
| <b>Fusion Partners</b>          | Spleen cells from immunized LOU rats were fused with cells of the rat Y3/Ag.1.2.3 myeloma cell line   |
| <b>Specificity</b>              | <p><b>Rat anti Human CD18 antibody, clone YFC118.3</b> was clustered at the Fourth International Workshop on Leucocyte Differentiation Antigens (code number N221) as recognizing the CD18 antigen.</p> <p>CD18 is an integral membrane glycoprotein of ~95 kDa, also known as the beta 2 chain, of the LFA-1 complex. CD18 links non-covalently to either CD11a, b or c molecules forming the heteromeric LFA-1 complex. CD18 acts as the receptor for ICAM-1 and is important for cell adhesion and cell-cell interactions (<a href="#">Reina &amp; Espel 2017</a>).</p> <p>Rat anti Human CD18 antibody, clone YFC118.3 demonstrates strong reactivity with leucocytes and is not reactive with platelets.</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. Bindon, C.I. <i>et al.</i> (1988) Importance of antigen specificity for complement-mediated lysis by monoclonal antibodies. <a href="#">Eur J Immunol. 18 (10): 1507-14.</a></li> <li>2. Chabanne, L. <i>et al.</i> (1994) Screening of 78 monoclonal antibodies directed against human leukocyte antigens for cross-reactivity with surface markers on canine lymphocytes. <a href="#">Tissue Antigens. 43 (3): 202-5.</a></li> <li>3. Mizuno, T. <i>et al.</i> (1997) cDNA cloning and chromosomal localization of the human telencephalin and its distinctive interaction with lymphocyte function-associated antigen-1. <a href="#">J Biol Chem. 272: 1156-63.</a></li> <li>4. Kupatt, C. <i>et al.</i> (1999) Tumor necrosis factor-alpha contributes to ischemia- and reperfusion-induced endothelial activation in isolated hearts. <a href="#">Circ Res. 84: 392-400.</a></li> <li>5. Salvatierra, A. <i>et al.</i> (2001) Antithrombin III prevents early pulmonary dysfunction after</li> </ol> |

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|--------------------------------------|--|
| <b>Further Reading</b>               | 1. Marconato, L. (2013) The dog as a possible animal model for human non-Hodgkin lymphoma: a review. <a href="#">Hematol Oncol. 31: 1-9.</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  |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA503SBV515">https://www.bio-rad-antibodies.com/SDS/MCA503SBV515</a> |
| <b>Regulatory</b>                    | For research purposes only   |

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## 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)  
'M422699:230922'

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