

## Datasheet: MCA1079F

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|----------------------|---------------------------|
| <b>Description:</b>  | MOUSE ANTI HORSE CD5:FITC |
| <b>Specificity:</b>  | CD5                       |
| <b>Format:</b>       | FITC                      |
| <b>Product Type:</b> | Monoclonal Antibody       |
| <b>Clone:</b>        | CVS5                      |
| <b>Isotype:</b>      | IgG1                      |
| <b>Quantity:</b>     | 0.1 mg                    |

## 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 - 1/10        |
| Immunofluorescence |     |    | ■              |                    |

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

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|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| Target Species                 | Horse                                                                                                                                                                                                                                                                                    |                     |                   |
| Product Form                   | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid                                                                                                                                                                                                           |                     |                   |
| Max Ex/Em                      | Fluorophore                                                                                                                                                                                                                                                                              | Excitation Max (nm) | Emission Max (nm) |
|                                | FITC                                                                                                                                                                                                                                                                                     | 490                 | 525               |
| Preparation                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant                                                                                                                                                                                            |                     |                   |
| Preservative                   | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                                                                                                                                                                                                   |                     |                   |
| Stabilisers                    | 1% Bovine Serum Albumin                                                                                                                                                                                                                                                                  |                     |                   |
| Approx. Protein Concentrations | IgG concentration 0.1 mg/ml                                                                                                                                                                                                                                                              |                     |                   |
| Immunogen                      | Equine leucocytes.                                                                                                                                                                                                                                                                       |                     |                   |
| Fusion Partners                | Spleen cells from immunised Balb/c mice were fused with cells of the mouse X63-Ag8.653 myeloma cell line.                                                                                                                                                                                |                     |                   |
| Specificity                    | <b>Mouse anti Horse CD5 antibody, clone CVS5</b> recognizes the equine CD5 antigen, a single-pass type I membrane protein with an approximate molecular weight of 69 kDa. Equine CD5 is expressed on the majority of T-lymphocytes, in addition is has been reported that equine CD5 may |                     |                   |

also be detected at very low levels on B-cells and granulocytes.

In addition to the CVS5 clone, other [CVS clones](#) recognising equine MHC and cell surface antigens are available from Bio-Rad.

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| <b>Flow Cytometry</b> | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. |
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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>References</b> | <ol style="list-style-type: none"><li>1. Lunn, D.P. <i>et al.</i> (1991) Three monoclonal antibodies identifying antigens on all equine T lymphocytes, and two mutually exclusive T-lymphocyte subsets. <a href="#">Immunology. 74 (2): 251-7.</a></li><li>2. Lunn, D.P. <i>et al.</i> (1998) Report of the Second Equine Leucocyte Antigen Workshop, Squaw valley, California, July 1995. <a href="#">Vet Immunol Immunopathol. 62 (2): 101-43.</a></li><li>3. Moyo, N.A. <i>et al.</i> (2013) Differentiation and activation of equine monocyte-derived dendritic cells are not correlated with CD206 or CD83 expression. <a href="#">Immunology. 139 (4): 472-83.</a></li><li>4. Mayall, S. <i>et al.</i> (2001) The anti-human CD21 antibody, BU33, identifies equine B cells. <a href="#">J Comp Pathol. 124 :83-7.</a></li><li>5. Siedek, E. <i>et al.</i> (1997) Isolation and characterisation of equine dendritic cells. <a href="#">Vet Immunol Immunopathol. 60: 15-31.</a></li><li>6. Colbath AC <i>et al.</i> (2016) Autologous and Allogeneic Equine Mesenchymal Stem Cells Exhibit Equivalent Immunomodulatory Properties <i>In Vitro</i>. <a href="#">Stem Cells Dev. Dec 13. [Epub ahead of print]</a></li><li>7. Ziegler, A. <i>et al.</i> (2016) Equine dendritic cells generated with horse serum have enhanced functionality in comparison to dendritic cells generated with fetal bovine serum. <a href="#">BMC Vet Res. 12 (1): 254.</a></li><li>8. Ziegler, A. <i>et al.</i> (2016) Identification and characterization of equine blood plasmacytoid dendritic cells. <a href="#">Dev Comp Immunol. 65: 352-7.</a></li></ol> |
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| <b>Storage</b> | Store at +4°C or at -20°C if preferred.<br>Storage in frost-free freezers is not recommended.<br>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. |
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| <b>Shelf Life</b> | 18 months from date of despatch. |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at:<br>10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a> |
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| <b>Regulatory</b> | For research purposes only |
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