

## Datasheet: MCA1080F

<b>Description:</b>	MOUSE ANTI HORSE CD8:FITC
<b>Specificity:</b>	CD8
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CVS21
<b>Isotype:</b>	IgG2a
<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.

<b>Target Species</b>	Horse
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% bovine serum albumin

<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
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<b>Immunogen</b>	Equine peripheral blood mononuclear cells.
<b>Fusion Partners</b>	Spleen cells from immunized mice were fused with cells of the X63-Ag 8.653 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Horse CD8 antibody, clone CVS21</b> recognizes the equine homolog of human CD8. Equine CD8 is expressed by a subset of T lymphocytes.</p> <p>In addition to the CVS21 clone, other <a href="#">CVS</a> clones recognising equine MHC and cell surface antigens are available.</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. Ferreira-Dias, G. <i>et al.</i> (2005) Seasonal reproduction in the mare: possible role of plasma leptin, body weight and immune status. <a href="#">Domest Anim Endocrinol. 29: 203-13.</a></li> <li>2. Krakowski, L. <i>et al.</i> (2017) Changes in blood lymphocyte subpopulations and expression of MHC-II molecules in wild mares before and after parturition <a href="#">J Vet Res. 61 (2): 217-21.</a></li> <li>3. Schauer, M. <i>et al.</i> (2018) Interaction of septin 7 and DOCK8 in equine lymphocytes reveals novel insights into signaling pathways associated with autoimmunity. <a href="#">Sci Rep. 8 (1): 12332.</a></li> <li>4. Tomlinson, J.E. <i>et al.</i> (2018) Multispectral fluorescence-activated cell sorting of B and T cell subpopulations from equine peripheral blood. <a href="#">Vet Immunol Immunopathol. 199: 22-31.</a></li> <li>5. Hillmann, A. <i>et al.</i> (2019) A novel direct co-culture assay analyzed by multicolor flow cytometry reveals context- and cell type-specific immunomodulatory effects of equine mesenchymal stromal cells. <a href="#">PLoS One. 14 (6): e0218949.</a></li> <li>6. Witonsky, S. <i>et al.</i> (2019) Can levamisole upregulate the equine cell-mediated macrophage (M1) dendritic cell (DC1) T-helper 1 (CD4 Th1) T-cytotoxic (CD8) immune response <i>in vitro</i>? <a href="#">J Vet Intern Med. 33 (2): 889-96.</a></li> <li>7. Lucassen, A. <i>et al.</i> (2021) A <i>Saccharomyces cerevisiae</i> Fermentation Product (Olimond BB) Alters the Early Response after Influenza Vaccination in Racehorses. <a href="#">Animals (Basel). 11(9):2726.</a></li> <li>8. Townsend, K.S. <i>et al.</i> (2023) Concurrent chronic lymphocytic leukemia and primary hyperparathyroidism in a mule. <a href="#">J Vet Intern Med. 37 (3): 1250-5.</a></li> <li>9. Terpeluk, R.E. <i>et al.</i> (2024) Supplementation of Foals with a <i>Saccharomyces cerevisiae</i> Fermentation Product Alters the Early Response to Vaccination <a href="#">Animals. 14 (6): 960.</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10041 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA1080F10041>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HORSE CD4:RPE \(MCA1078PE\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 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 Fax: +44 (0)1865 852 739 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 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M408057:221010'

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