

## Datasheet: MCA1080PE

<b>Description:</b>	MOUSE ANTI HORSE CD8:RPE
<b>Specificity:</b>	CD8
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CVS21
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS

## 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 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 R. Phycoerythrin (RPE) - lyophilized

**Reconstitution** Reconstitute with 1.0 ml distilled water  
Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Preservative Stabilisers**  
0.09% sodium azide (NaN<sub>3</sub>)  
1% bovine serum albumin  
5% sucrose

<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>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1080PE">https://www.bio-rad-antibodies.com/SDS/MCA1080PE</a> 20487
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HORSE CD4:FITC \(MCA1078F\)](#)

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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)  
'M419442:230616'

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