

Datasheet: MCA1080PE

BATCH NUMBER INN1803

Description:	MOUSE ANTI HORSE CD8:RPE
Specificity:	CD8
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CVS21
Isotype:	IgG2a
Quantity:	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.

	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.

Target Species	Horse
Product Form	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.
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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
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Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 5% Sucrose
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Immunogen	Equine peripheral blood mononuclear cells.
Fusion Partners	Spleen cells from immunised mice were fused with cells of the X63-Ag 8.653 mouse myeloma cell line.
Specificity	<p>Mouse anti Horse CD8 antibody, clone CVS21 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 CVS clones recognising equine MHC and cell surface antigens are available.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Ferreira-Dias, G. <i>et al.</i> (2005) Seasonal reproduction in the mare: possible role of plasma leptin, body weight and immune status. Domest Anim Endocrinol. 29: 203-13. 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 J Vet Res. 61 (2): 217-21. 3. 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>? J Vet Intern Med. 33 (2): 889-96. 4. 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. PLoS One. 14 (6): e0218949. 5. Tomlinson, J.E. <i>et al.</i> (2018) Multispectral fluorescence-activated cell sorting of B and T cell subpopulations from equine peripheral blood. Vet Immunol Immunopathol. 199: 22-31. 6. 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. Animals (Basel). 11(9):2726. 7. 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. Sci Rep. 8 (1): 12332.
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1080PE</p> <p>20487</p>
Regulatory	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

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