

Datasheet: MCA1080F

BATCH NUMBER 166542

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

| | 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 | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% sodium azide (NaN ₃) | | |
| Stabilisers | 1% bovine serum albumin | | |
| Approx. Protein Concentrations | IgG concentration 0.1 mg/ml | | |

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| Immunogen | Equine peripheral blood mononuclear cells. |
| Fusion Partners | Spleen cells from immunized 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 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl |
| 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. 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. 4. 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. 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. PLoS One. 14 (6): e0218949. 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>? J Vet Intern Med. 33 (2): 889-96. 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. Animals (Basel). 11(9):2726. 8. Townsend, K.S. <i>et al.</i> (2023) Concurrent chronic lymphocytic leukemia and primary hyperparathyroidism in a mule. J Vet Intern Med. 37 (3): 1250-5. 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 Animals. 14 (6): 960. |
| Storage | <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> |
| Guarantee | 12 months from date of despatch |
| Health And Safety | Material Safety Datasheet documentation #10041 available at: |

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

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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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://www.bio-rad-antibodies.com/datasheets)
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