# Datasheet: MCA1081F

**BATCH NUMBER 0113**

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|---|---|
| **Description:** | MOUSE ANTI HORSE CD11a/CD18:FITC |
| **Specificity:** | CD11a/CD18 |
| **Format:** | FITC |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | CVS9 |
| **Isotype:** | IgG1 |
| **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 |

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 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 Stabilisers**

0.09% Sodium Azide ($NaN_3$)
1% Bovine Serum Albumin

**Approx. Protein Concentrations**

IgG concentration 0.1 mg/ml

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|---|---|
| **Immunogen** | Equine leucocytes. |
| **Fusion Partners** | Spleen cells from immunised mice were fused with cells of the X63-Ag 8.653 mouse myeloma cell line. |
| **Specificity** | **Mouse anti Horse CD11a/CD18 antibody, clone CVS9** recognizes the equine homolog of the human CD11a/CD18 cell surface antigen, a hetrodimer expressed on all equine cells of haemopoietic origin. Studies have indicated that equine CD11a/CD18 has higher expression on some subpopulations of T-cells.<br><br>In addition to the CVS9 clone, other CVS clones recognising equine MHC and cell surface antigens are available from Bio-Rad. |
| **Flow Cytometry** | Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul. |
| **References** | 1. Kydd, J. *et al.* (1994) Report of the First International Workshop on Equine Leucocyte Antigens, Cambridge, UK, July 1991. Vet Immunol Immunopathol. 42 (1): 3-60.<br>2. Lunn, D.P. *et al.* (1998) Report of the Second Equine Leucocyte Antigen Workshop, Squaw valley, California, July 1995. Vet Immunol Immunopathol. 62 (2): 101-43.<br>3. McClure JT *et al.* (2001) Immunophenotypic classification of leukemia in 3 horses. J Vet Intern Med. 15 (2): 144-52.<br>4. Hammond, S.A. *et al.* (1999) Functional characterization of equine dendritic cells propagated ex vivo using recombinant human GM-CSF and recombinant equine IL-4. Vet Immunol Immunopathol. 71 (3-4): 197-214.<br>5. Laval, K. *et al.* (2015) Equine Herpesvirus Type 1 Enhances Viral Replication in CD172a+ Monocytic Cells upon Adhesion to Endothelial Cells. J Virol. 89 (21): 10912-23.<br>6. Schröck, C. *et al.* (2017) Bone marrow-derived multipotent mesenchymal stromal cells from horses after euthanasia. Vet Med Sci. 3 (4): 239-251. |
| **Storage** | Store at +4°C or at -20°C if preferred.<br><br>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |
| **Guarantee** | 12 months from date of despatch |
| **Health And Safety Information** | Material Safety Datasheet documentation #10041 available at:<br>https://www.bio-rad-antibodies.com/SDS/MCA1081F<br>10041 |
| **Regulatory** | For research purposes only |


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