

# Datasheet: MCA1899F

Description:	MOUSE ANTI HORSE PAN B-CELLS:FITC
Specificity:	PAN B-CELLS
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CVS36
Isotype:	lgG1
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			Neat - 1/10
ELISA	-			
Immunofluorescence			•	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Purified IgG conju	ugated to Fluorescein Isoth	niocyanate Isomer 1
FITC	490	525
Purified IgG preparent	ared by affinity chromatogi	raphy on Protein G
Phosphate buffer	ed saline	
0.09% sodium az	ide (NaN <sub>3</sub> )	
10/ having a serving	ماله، بمهانم	
	Fluorophore FITC  Purified IgG preparations appernatant  Phosphate buffer  0.09% sodium az	FITC 490  Purified IgG prepared by affinity chromatog

Immunogen	Purified Equine Ig.
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.
Specificity	Mouse anti Horse Pan B-Cells, clone CVS36 is a monoclonal antibody directed against equine Ig light chains. Mouse anti Horse Pan B-Cells, clone CVS36 binds 100% of CD5-ve peripheral blood lymphocytes and recognized all equine B-cells ( <u>Lunn et al. 1998</u> ) As the antigen recognized by clone CVS36 appears to be present on the surface of all equine B-cells it is therefore is a reagent that can be used as a pan B-cell marker for domestic horses ( <u>Breathnach et al. 2005</u> ).
	Specific anti equine reagents have yet to be fully characterized for the typically recognized B-cell makers such as CD19, CD20, CD21, CD22 and CD79. While testing has demonstrated the cross reactivity of some monoclonal B-cell markers raised against other species with equine B cells, such as the Mouse anti Human CD79a antibody, (clone HM57), an overview of which may be found in the report of the second equine leucocyte antigen workshop (Lunn et al. 1998).
	With specificity for equine Ig light chains, clone CVS36 may be used to detect all equine immunoglobulin classes and subclasses in ELISA applications ( <u>Lunn et al. 1998</u> ).
Flow Cytometry	Use 10µl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100µl
References	<ol> <li>Lunn, D.P. <i>et al.</i> (1998) Report of the Second Equine Leucocyte Antigen Workshop, Squaw valley, California, July 1995. Vet Immunol Immunopathol. 62 (2): 101-43.</li> <li>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.</li> <li>Cequier, A. <i>et al.</i> (2022) Equine Mesenchymal Stem Cells Influence the Proliferative Response of Lymphocytes: Effect of Inflammation, Differentiation and MHC-Compatibility. Animals (Basel). 12 (8): 984.</li> </ol>
Further Reading	<ol> <li>Lunn, D.P. et al. (1991) Three monoclonal antibodies identifying antigens on all equine T lymphocytes, and two mutually exclusive T-lymphocyte subsets. <a href="mailto:lmmunology.74">lmmunology. 74</a> (2): 251-7.</li> <li>Sheoran, A.S. et al. (1998) Monoclonal antibodies to subclass-specific antigenic determinants on equine immunoglobulin gamma chains and their characterization. <a href="mailto:Vet lmmunol lmmunopathol.62">Vet lmmunol lmmunopathol.62</a> (2): 153-65.</li> </ol>
Storage	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.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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/MCA1899F

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**Regulatory** For research purposes only

## **Related Products**

#### **Recommended Useful Reagents**

MOUSE ANTI HORSE PAN B-CELLS (MCA1899GA)
MOUSE ANTI HORSE PAN B-CELLS:RPE (MCA1899PE)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M411987:221109'

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