

Datasheet: MCA1899F

BATCH NUMBER 158531

Description:	MOUSE ANTI HORSE PAN B-CELLS:FITC
Specificity:	PAN B-CELLS
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CVS36
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
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.

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
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	<p>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 (Lunn et al. 1998) 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 (Breathnach et al. 2005).</p> <p>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).</p> <p>With specificity for equine Ig light chains, clone CVS36 may be used to detect all equine immunoglobulin classes and subclasses in ELISA applications (Lunn et al. 1998).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul
References	<ol style="list-style-type: none"> Schneider, R. (2010) Analysis of antibody subtypes and T lymphocyte activation following vaccination of healthy foals against West Nile Virus In M.Sc thesis University of Pennsylvania, Chapter 3, p.34-45 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. Umlauf, C. (2004) Herstellung und Charakterisierung monoklonaler Antikörper gegen equine Leukozyten In Phd thesis Ludwig-Maximilians-Universität München Tomlinson, J.E. et al. (2018) Multispectral fluorescence-activated cell sorting of B and T cell subpopulations from equine peripheral blood. Vet Immunol Immunopathol. 199: 22-31. Cequier, A. et al. (2022) Equine Mesenchymal Stem Cells Influence the Proliferative Response of Lymphocytes: Effect of Inflammation, Differentiation and MHC-Compatibility. Animals (Basel). 12 (8): 984.
Further Reading	<ol style="list-style-type: none"> Lunn, D.P. et al. (1991) Three monoclonal antibodies identifying antigens on all equine T lymphocytes, and two mutually exclusive T-lymphocyte subsets. Immunology. 74 (2): 251-7. Sheoran, A.S. et al. (1998) Monoclonal antibodies to subclass-specific antigenic determinants on equine immunoglobulin gamma chains and their characterization. Vet Immunol Immunopathol. 62 (2): 153-65.
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
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1899F 10041
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Regulatory	For research purposes only
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Related Products

Recommended Useful Reagents

[MOUSE ANTI HORSE PAN B-CELLS \(MCA1899GA\)](#)

[MOUSE ANTI HORSE PAN B-CELLS:RPE \(MCA1899PE\)](#)

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
'M383182:210513'

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