

## Datasheet: MCA1899GA

<b>Description:</b>	MOUSE ANTI HORSE PAN B-CELLS
<b>Specificity:</b>	PAN B-CELLS
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CVS36
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/25 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Western Blotting			▪	
Immunoblotting			▪	

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.

<b>Target Species</b>	Horse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Purified Equine Ig.
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Horse Pan B-Cells, clone CVS36</b> is a monoclonal antibody directed against equine Ig light chains. Characterization studies demonstrated that clone CVS36 bound 100% of CD5-ve peripheral blood lymphocytes and recognized all equine B-cells (<a href="#">Lunn et al. 1998</a>) 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 (<a href="#">Breathnach et al. 2005</a>).</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, (<a href="#">clone HM57</a>), an overview of which may be found in the report of the second equine leucocyte antigen workshop (<a href="#">Lunn et al. 1998</a>).</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 (<a href="#">Lunn et al. 1998</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>Schneider, R. (2010) Analysis of antibody subtypes and T lymphocyte activation following vaccination of healthy foals against West Nile Virus <a href="#">In M.Sc thesis University of Pennsylvania, Chapter 3, p.34-45</a></li> <li>Lunn, D.P. et al. (1998) Report of the Second Equine Leucocyte Antigen Workshop, Squaw valley, California, July 1995. <a href="#">Vet Immunol Immunopathol. 62 (2): 101-43.</a></li> <li>Umlauf, C. (2004) Herstellung und Charakterisierung monoklonaler Antikörper gegen equine Leukozyten <a href="#">In Phd thesis Ludwig-Maximilians-Universität München</a></li> <li>Tomlinson, J.E. et al. (2018) Multispectral fluorescence-activated cell sorting of B and T cell subpopulations from equine peripheral blood. <a href="#">Vet Immunol Immunopathol. 199: 22-31.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <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="#">Immunology. 74 (2): 251-7.</a></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="#">Vet Immunol Immunopathol. 62 (2): 153-65.</a></li> </ol>
<b>Storage</b>	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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>

### Recommended Useful Reagents

[MOUSE ANTI HORSE PAN B-CELLS:FITC \(MCA1899F\)](#)

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

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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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