

Datasheet: MCA1899PE

BATCH NUMBER 166549

Description:	MOUSE ANTI HORSE PAN B-CELLS:RPE
Specificity:	PAN B-CELLS
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CVS36
Isotype:	IgG1
Quantity:	100 TESTS

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
ELISA	▪			

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 R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		

5% sucrose

Immunogen	Purified Equine Ig.
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Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.
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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 <i>et al.</i> 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 <i>et al.</i> 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 <i>et al.</i> 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 <i>et al.</i> 1998).</p>
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Flow Cytometry	Use 10µl of the suggested working dilution to label 1x10 ⁶ cells in 100µl
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References	<ol style="list-style-type: none">1. 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): 101-43.2. 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: 22-31.3. 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.
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Further Reading	<ol style="list-style-type: none">1. Lunn, D.P. <i>et al.</i> (1991) Three monoclonal antibodies identifying antigens on all equine T lymphocytes, and two mutually exclusive T-lymphocyte subsets. Immunology. 74 (2): 251-7.2. Sheoran, A.S. <i>et al.</i> (1998) Monoclonal antibodies to subclass-specific antigenic determinants on equine immunoglobulin gamma chains and their characterization. Vet Immunol Immunopathol. 62 (2): 153-65.
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Storage	<p>Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.</p>
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Guarantee	12 months from date of despatch
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Health And Safety Information Material Safety Datasheet documentation #20487 available at:
<https://www.bio-rad-antibodies.com/SDS/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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