

Datasheet: MCA1079PE

BATCH NUMBER 163558

Description:	MOUSE ANTI HORSE CD5:RPE
Specificity:	CD5
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CVS5
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

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 R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1ml 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 G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin 5% Sucrose		

Immunogen	Equine leucocytes.
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse X63-Ag8.653 myeloma cell line.
Specificity	<p>Mouse anti Horse CD5 antibody, clone CVS5 recognizes the equine CD5 antigen, a single-pass type I membrane protein with an approximate molecular weight of 69 kDa. Equine CD5 is expressed on the majority of T-lymphocytes, in addition it has been reported that equine CD5 may also be detected at very low levels on B-cells and granulocytes.</p> <p>In addition to the CVS5 clone, other CVS clones recognising equine MHC and cell surface antigens are available from Bio-Rad.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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. 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. Moyo, N.A. <i>et al.</i> (2013) Differentiation and activation of equine monocyte-derived dendritic cells are not correlated with CD206 or CD83 expression. Immunology. 139 (4): 472-83. Mayall, S. <i>et al.</i> (2001) The anti-human CD21 antibody, BU33, identifies equine B cells. J Comp Pathol. 124 :83-7. Siedek, E. <i>et al.</i> (1997) Isolation and characterisation of equine dendritic cells. Vet Immunol Immunopathol. 60: 15-31. Colbath AC <i>et al.</i> (2016) Autologous and Allogeneic Equine Mesenchymal Stem Cells Exhibit Equivalent Immunomodulatory Properties <i>In Vitro</i>. Stem Cells Dev. Dec 13. [Epub ahead of print] Ziegler, A. <i>et al.</i> (2016) Equine dendritic cells generated with horse serum have enhanced functionality in comparison to dendritic cells generated with fetal bovine serum. BMC Vet Res. 12 (1): 254. Ziegler, A. <i>et al.</i> (2016) Identification and characterization of equine blood plasmacytoid dendritic cells. Dev Comp Immunol. 65: 352-7. Ziegler, A. <i>et al.</i> (2021) An allergen-fused dendritic cell-binding peptide enhances in vitro proliferation of equine T-cells and cytokine production Vet Immunol Immunopathol: 110351.
Storage	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #20487 available at:

Information

<https://www.bio-rad-antibodies.com/SDS/MCA1079PE>
20487

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For research purposes only

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