Datasheet: MCA1079PE

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

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
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

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 is has been reported that equine CD5 may also be detected at very low levels on B-cells and granulocytes.

	In addition to the CVS5 clone, other CVS clones recognising equine MHC and cell surface antigens are available from Bio-Rad.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. 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. 2. 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. 3. Moyo, N.A. *et al.* (2013) Differentiation and activation of equine monocyte-derived dendritic cells are not correlated with CD206 or CD83 expression. Immunology. 139 (4): 472-83. 4. Mayall, S. *et al.* (2001) The anti-human CD21 antibody, BU33, identifies equine B cells. J Comp Pathol. 124 :83-7. 5. Siedek, E. *et al.* (1997) Isolation and characterisation of equine dendritic cells. Vet Immunol Immunopathol. 60: 15-31. 6. Colbath AC *et al.* (2016) Autologous and Allogeneic Equine Mesenchymal Stem Cells Exhibit Equivalent Immunomodulatory Properties *In Vitro*. Stem Cells Dev. Dec 13. [Epub ahead of print] 7. Ziegler, A. *et al.* (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. 8. Ziegler, A. *et al.* (2016) Identification and characterization of equine blood plasmacytoid dendritic cells. Dev Comp Immunol. 65: 352-7.
Storage	Store at +4°C. DO NOT FREEZE. 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.
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

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