

Datasheet: MCA2385PE

Description:	MOUSE ANTI HORSE CD8:RPE
Specificity:	CD8
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CVS8
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		
Species Cross Reactivity	Reacts with: Ass Does not react with: Zebra N.B. Antibody reactivity and working conditions may vary between species.		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.		
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	Equine PBMCs.		

Fusion Partners Spleen cells from immunized BALB/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.

Specificity **Mouse anti Horse CD8 (clone CVS8)**, is a monoclonal antibody recognising the equine homologue of the human CD8 cell surface antigen which is expressed by a subset of T lymphocytes.

A study undertaken using CVS8 to identify CD8 on several wild african equid species indicates that the CVS8 clone recognizes Somali wild ass (*Equus asinus*) but not Grévy's Zebra (*E. grevyi*) or Hartmann's Mountain Zebra (*E. zebra*) ([Ibrahim 2007](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ 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: 251-257](#).
 2. Jacks, S. (2007) Experimental infection of neonatal foals with *Rhodococcus equi* triggers adult-like gamma interferon induction. [Clin Vaccine Immunol. 14: 669-77](#).
 3. Pearson, W. *et al.* (2007) Low-dose ginseng (*Panax quinquefolium*) modulates the course and magnitude of the antibody response to vaccination against equid herpesvirus I in horses. [Can J Vet Res. 71: 213-7](#).
 4. Lunn, D.P. *et al.* (1998) Report of the second equine leucocyte antigen workshop, Squaw Valley, California July 1995. [Vet Immunol Immunopathol. 62: 101-143](#).
 5. Merant, C. *et al.* (2003) Cross-species reactivity of seven monoclonal antibodies with equine lymphocytes by flow cytometry. [Vet Res. 34: 791-801](#).
 6. Ibrahim, S (2007) Analysis of monoclonal antibody cross-reactivity with leukocytes from equids and cloning of CD28 [Chapter 5 in PhD Thesis Freie Universität Berlin](#)
 7. Carossino, M. *et al.* (2019) Equine arteritis virus long-term persistence is orchestrated by CD8+ T lymphocyte transcription factors, inhibitory receptors, and the CXCL16/CXCR6 axis. [PLoS Pathog. 15 \(7\): e1007950](#).

Storage Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted. This product is photosensitive and should be protected from light.

Guarantee 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

Related Products

Recommended Useful Reagents

[MOUSE ANTI HORSE CD4:FITC \(MCA1078F\)](#)

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