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 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

Species Cross Reactivity

Reacts with: Ass
Does not react with:Zebra
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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 Stabilisers	0.09% sodium azide (NaN_3) 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 10µl of the suggested working dilution to label 10^6 cells in 100µl
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. 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. 3. Merant, C. *et al*. (2003) Cross-species reactivity of seven monoclonal antibodies with equine lymphocytes by flow cytometry. Vet Res. 34: 791-801. 4. 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 5. 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. 6. Jacks, S. (2007) Experimental infection of neonatal foals with Rhodococcus equi triggers adult-like gamma interferon induction. Clin Vaccine Immunol. 14: 669-77. 7. Tomlinson, J.E. *et al.* (2018) Multispectral fluorescence-activated cell sorting of B and T cell subpopulations from equine peripheral blood. Vet Immunol Immunopathol. 199: 22-31. 8. 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. 9. Placci, M. *et al.* (2020) Natural Horse Boarding Vs Traditional Stable: A Comparison of Hormonal, Hematological and Immunological Parameters. J Appl Anim Welf Sci. 23 (3): 366-77. 10. Cequier, A. *et al.* (2022) Equine Mesenchymal Stem Cells Influence the Proliferative Response of Lymphocytes: Effect of Inflammation, Differentiation and MHC-Compatibility. Animals (Basel). 12 (8): 984.

11. Siqueira, R.F. & Fernandes, R.L. (2018) Cryopreservation of lymphocytes for immunological studies in horses Pesquisa Veterinária Brasileira. 38 (11): 2019-22.
12. Kamm, J.L. *et al.* (2021) Immune response to allogeneic equine mesenchymal stromal cells. Stem Cell Res Ther. 12 (1): 570.

Storage	This product is shipped at ambient temperature. 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 despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2385PE 20487
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE ANTI HORSE CD4:FITC (MCA1078F)

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Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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