

Datasheet: MCA2385GA

BATCH NUMBER 166446

Description:	MOUSE ANTI HORSE CD8
Specificity:	CD8
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CVS8
Isotype:	IgG1
Quantity:	0.1 mg

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	▪			1/25 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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	<p>Reacts with: Ass</p> <p>Does not react with: Zebra</p> <p>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.</p>
Product Form	Purified IgG - liquid
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)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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	<p>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.</p> <p>A study undertaken using CVS8 to identify CD8 on several wild african equid species indicates that the CVS8 clone recognizes Somali wild ass (<i>Equus asinus</i>) but not Grévy's Zebra (<i>E. grevyi</i>) or Hartmann's Mountain Zebra (<i>E. zebra</i>) (Ibrahim 2007).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none">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 Berlin5. Pearson, W. et al. (2007) Low-dose ginseng (<i>Panax quinquefolium</i>) modulates the course and magnitude of the antibody response to vaccination against equid herpesvirus 1 in horses. Can J Vet Res. 71: 213-7.6. Jacks, S. (2007) Experimental infection of neonatal foals with <i>Rhodococcus equi</i> 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.](#)

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2385GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M414812:221213'

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