

## Datasheet: MCA2385F

**BATCH NUMBER 0112**

<b>Description:</b>	MOUSE ANTI HORSE CD8:FITC
<b>Specificity:</b>	CD8
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CVS8
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/10
Immunofluorescence			■	

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. 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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	Equine PBMCs.
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Horse CD8 (clone CVS8)</b>, 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>) (<a href="#">Ibrahim 2007</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Lunn, D.P et al (1991) Three monoclonal antibodies identifying antigens on all equine T lymphocytes, and two mutually exclusive T-lymphocyte subsets <a href="#">Immunology 74: 251-257.</a></li> <li>2. Jacks, S. (2007) Experimental infection of neonatal foals with Rhodococcus equi triggers adult-like gamma interferon induction. <a href="#">Clin Vaccine Immunol. 14: 669-77.</a></li> <li>3. Pearson, W. <i>et al.</i> (2007) Low-dose ginseng (Panax quinquefolium) modulates the course and magnitude of the antibody response to vaccination against equid herpesvirus 1 in horses. <a href="#">Can J Vet Res. 71: 213-7.</a></li> <li>4. Lunn, D.P. <i>et al.</i> (1998) Report of the second equine leucocyte antigen workshop, Squaw Valley, California July 1995. <a href="#">Vet Immunol Immunopathol. 62: 101-143.</a></li> <li>5. Merant, C. <i>et al.</i> (2003) Cross-species reactivity of seven monoclonal antibodies with equine lymphocytes by flow cytometry. <a href="#">Vet Res. 34: 791-801.</a></li> <li>6. Ibrahim, S (2007) Analysis of monoclonal antibody cross-reactivity with leukocytes from equids and cloning of CD28 <a href="#">Chapter 5 in PhD Thesis Freie Universität Berlin</a></li> <li>7. Carossino, M. <i>et al.</i> (2019) Equine arteritis virus long-term persistence is orchestrated by CD8+ T lymphocyte transcription factors, inhibitory receptors, and the CXCL16/CXCR6 axis. <a href="#">PLoS Pathog. 15 (7): e1007950.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch

**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA2385F10041>

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**Regulatory**

For research purposes only

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**Related Products**

**Recommended Useful Reagents**

[MOUSE ANTI HORSE CD4:RPE \(MCA1078PE\)](#)

**North & South  
America**

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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](https://bio-rad-antibodies.com/datasheets)  
'M366743:200529'

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