

## Datasheet: MCA1086F

**BATCH NUMBER 0112**

<b>Description:</b>	MOUSE ANTI HORSE MHC CLASS I MONOMORPHIC:FITC
<b>Specificity:</b>	MHC CLASS I MONOMORPHIC
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CVS22
<b>Isotype:</b>	IgG2a
<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

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 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 G from tissue culture supernatant.		
Buffer Solution	Phosphate buffered saline.		
Preservative	0.09% Sodium Azide (NaN <sub>3</sub> )		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

<b>Immunogen</b>	Equine leucocytes.
<b>Fusion Partners</b>	Spleen cells from immunised mice were fused with cells of the X63.Ag 8.653 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Horse MHC Class I Monomorphic antibody, clone CVS22</b> recognizes monomorphic equine MHC Class I and was classified at the International Equine Leucocyte Antigen Workshop. MHC class I is expressed by all nucleated cells.</p> <p>The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In horses, this complex is referred to as the equine leukocyte antigen (ELA) region.</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. <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>2. Mé rant, C. <i>et al.</i> (2009) Young foal and adult horse monocyte-derived dendritic cells differ by their degree of phenotypic maturity. <a href="#">Vet Immunol Immunopathol. 131:1-8</a></li> <li>3. Soboll Hussey, G. <i>et al.</i> (2014) Innate immune responses of airway epithelial cells to infection with equine herpesvirus-1. <a href="#">Vet Microbiol. 170 (1-2): 28-38.</a></li> <li>4. Mé rant, C. <i>et al.</i> (2009) Young foal and adult horse monocyte-derived dendritic cells differ by their degree of phenotypic maturity. <a href="#">Vet Immunol Immunopathol. 131 (1-2): 1-8.</a></li> <li>5. Maumus M <i>et al.</i> (2016) Utility of a Mouse Model of Osteoarthritis to Demonstrate Cartilage Protection by IFN<math>\gamma</math>-Primed Equine Mesenchymal Stem Cells. <a href="#">Front Immunol. 7: 392.</a></li> <li>6. Rapacz-leonard, A. <i>et al.</i> (2018) Major histocompatibility complex class I in the horse (<i>Equus caballus</i>) placenta during pregnancy and parturition. <a href="#">Placenta. 74: 36-46.</a></li> <li>7. Barberini, D.J. <i>et al.</i> (2018) Safety and tracking of intrathecal allogeneic mesenchymal stem cell transplantation in healthy and diseased horses. <a href="#">Stem Cell Res Ther. 9 (1): 96.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C for one month or at -20°C for longer.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. 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
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1086F">https://www.bio-rad-antibodies.com/SDS/MCA1086F</a></p> <p>10041</p>
<b>Regulatory</b>	For research purposes only

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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)

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