

Datasheet: MCA1086GA

BATCH NUMBER 165570

Description:	MOUSE ANTI HORSE MHC CLASS I MONOMORPHIC
Specificity:	MHC CLASS I MONOMORPHIC
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CVS22
Isotype:	IgG2a
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 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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G 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 leucocytes.
Fusion Partners	Spleen cells from immunized mice were fused with cells of the X63.Ag 8.653 mouse myeloma cell line.
Specificity	<p>Mouse anti Horse MHC Class I Monomorphic antibody, clone CVS22 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>
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. <i>et al.</i> (1998) Report of the Second Equine Leucocyte Antigen Workshop, Squaw valley, California, July 1995. Vet Immunol Immunopathol. 62:101-143 2. Mérant, C. <i>et al.</i> (2009) Young foal and adult horse monocyte-derived dendritic cells differ by their degree of phenotypic maturity. Vet Immunol Immunopathol. 131 (1-2): 1-8. 3. Carrade, D.D. <i>et al.</i> (2011) Clinicopathologic findings following intra-articular injection of autologous and allogeneic placentally derived equine mesenchymal stem cells in horses. Cytotherapy. 13 (4): 419-30. 4. Soboll Hussey, G. <i>et al.</i> (2014) Innate immune responses of airway epithelial cells to infection with equine herpesvirus-1. Vet Microbiol. 170 (1-2): 28-38. 5. Tessier, L. <i>et al.</i> (2015) Phenotypic and immunomodulatory properties of equine cord blood-derived mesenchymal stromal cells. PLoS One. 10 (4): e0122954. 6. Maumus M <i>et al.</i> (2016) Utility of a Mouse Model of Osteoarthritis to Demonstrate Cartilage Protection by IFNγ-Primed Equine Mesenchymal Stem Cells. Front Immunol. 7: 392. 7. Barberini, D.J. <i>et al.</i> (2018) Safety and tracking of intrathecal allogeneic mesenchymal stem cell transplantation in healthy and diseased horses. Stem Cell Res Ther. 9 (1): 96. 8. 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. Placenta. 74: 36-46.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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/MCA1086GA

Regulatory

For research purposes only

Related Products**Recommended Secondary Antibodies**

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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