

Datasheet: MCA1086F BATCH NUMBER 165569

Description:	MOUSE ANTI HORSE MHC CLASS I MONOMORPHIC:FITC		
Specificity:	MHC CLASS I MONOMORPHIC		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	CVS22		
Isotype:	lgG2a		
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				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.

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	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.		
	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.		
Flow Cytometry	Use 10μl of the suggested working dilution to label 10 ⁶ cells in 100μl		
References	 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 Mérant, C. et al. (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. Carrade, D.D. et al. (2011) Clinicopathologic findings following intra-articular injection of autologous and allogeneic placentally derived equine mesenchymal stem cells in horses. Cytotherapy. 13 (4): 419-30. Soboll Hussey, G. et al. (2014) Innate immune responses of airway epithelial cells to infection with equine herpesvirus-1. Vet Microbiol. 170 (1-2): 28-38. Tessier, L. et al. (2015) Phenotypic and immunomodulatory properties of equine cord blood-derived mesenchymal stromal cells. PLoS One. 10 (4): e0122954. Maumus M et al. (2016) Utility of a Mouse Model of Osteoarthritis to Demonstrate Cartilage Protection by IFNγ-Primed Equine Mesenchymal Stem Cells. Front Immunol. 7: 392. Barberini, D.J. et al. (2018) Safety and tracking of intrathecal allogeneic mesenchymal stem cell transplantation in healthy and diseased horses. Stem Cell Res Ther. 9 (1): 96. Kamm, J.L. et al. (2021) Immune response to allogeneic equine mesenchymal stromal cells. Stem Cell Res Ther. 12 (1): 570. Rapacz-leonard, A. et al. (2018) Major histocompatibility complex class I in the horse (Equus caballus) placenta during pregnancy and parturition. Placenta. 74: 36-46. 		
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 #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1086F 10041		

Regulatory 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 'M408078:221010'

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