

Datasheet: MCA1085PE BATCH NUMBER 157842

Description:	MOUSE ANTI HORSE MHC CLASS II MONOMORPHIC:RPE			
Specificity:	MHC CLASS II MONOMORPHIC			
Format:	RPE			
Product Type:	Monoclonal Antibody			
Clone:	CVS20			
Isotype:	lgG1			
Quantity:	100 TESTS			

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 <u>www.bio-</u>						
	rad-antibodies.com/protocols.						
	Flow Cytometry	Yes	No	Not Determined	Suggested Dilution Neat		
		as not been t	ested for	use in a narticular tec			
	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: Human, Bovine, Dog 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 R. Phycoerythrin (RPE) - Iyophilized						
Reconstitution	Reconstitute with 1.0 ml distilled water						
Max Ex/Em	Fluorophore	Excitation M	ax (nm)	Emission Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Purified IgG prepared supernatant	by affinity chi	romatogi	raphy on Protein A fron	n tissue culture		

Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 5% Sucrose			
Immunogen	3132 cells.			
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X.63-Ag8.653 mouse myeloma cell line			
Specificity	Mouse anti Horse MHC Class II Monomorphic antibody, clone CVS20 recognizes monomorphic equine MHC Class II and was classified at the International Equine Leucocyte Antigen Workshop. Clone CVS20 reacts with all equine B cells and 95% of equine T cells. The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In horses, this is referred to as the equine leukocyte antigen (ELA) region.			
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.			
References	 Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. 1. Kydd, J.H. & Antczak. D.F. (1991) Report of the First International Workshop on Equine Leucocyte Antigens, Cambridge, UK, July 1991 Equine Immunol. 4: 5. 2. Lunn, D.P. <i>et al.</i> (1998) Report of the Second Equine Leucocyte Antigen Workshop, Squaw valley, California, July 1995. <u>Vet Immunol Immunopathol. 62 (2): 101-43.</u> 3. Weiss, D.J. <i>et al.</i> (2001) Regulation of expression of major histocompatibility antigens by bovine macrophages infected with <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> or <i>Mycobacterium avium</i> subsp. <i>avium</i>. <u>Infect Immun. 69 (2): 1002-8.</u> 4. Out, T.A. <i>et al.</i> (2002) Local T-cell activation after segmental allergen challenge in the lungs of allergic dogs. <u>Immunology. 105 (4): 499-508.</u> 5. 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. <u>Cytotherapy. 13: 419-30.</u> 6. Catchpole, B. <i>et al.</i> (2002) Generation of blood-derived dendritic cells in dogs with oral malignant melanoma. J <u>Comp Pathol. 126: 238-41.</u> 7. Weiss, D.J. <i>et al.</i> (2010) Mucosal immune response in cattle with subclinical Johne's disease. <u>Vet Pathol. 43: 127-35.</u> 8. Weiss, D.J. (2001) Evaluation of proliferative disorders in canine bone marrow by use of flow cytometric scatter plots and monoclonal antibodies. <u>Vet Pathol. 38: 512-8.</u> 9. Sassa, Y. <i>et al.</i> (2016) Comparative Analysis of the Immunondulatory Properties of Equine Adult-Derived Mesenchymal Stem Cells(). <u>Cell Med. 4 (1): 1-11.</u> 11. Hussein, H. <i>et al.</i> (2016) Cathepsin K inhibition renders equine bone marrow nucleated cells hypo-responsive to LPS and unmethylated CpG stimulation <i>in vitro</i>. <u>Comp Immunol Microbiol Infect Dis. 45: 40-7.</u> 12. Maia, L. <i>et al.</i> (2016) Conditioned medium: A new alternative for cryopreservation of 			

	equine umbilical cord mesenchymal stem cells. <u>Cell Biol Int. Nov 26 [Epub ahead of print]</u>				
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	stem/progenitor cells. <u>Cell Biol Int. 40 (12): 1332-1339.</u>				
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	Cartilage Protection by IFNγ-Primed Equine Mesenchymal Stem Cells. <u>Front Immunol. 7:</u>				
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	plasmacytoid dendritic cells. <u>Dev Comp Immunol. 65: 352-7.</u>				
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	equine immune cells stimulated by LPS and allogeneic mesenchymal stem cells. <u>Res Vet</u>				
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	umbilical cord. <u>Theriogenology. 100: 8-15.</u>				
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	nucleated cells hypo-responsive to LPS and unmethylated CpG stimulation <i>in vitro</i> . <u>Comp</u>				
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	mesenchymal stem cell migration in horses. <u>Res Vet Sci. 124: 38-45.</u>				
	20. Barberini, D.J. <i>et al.</i> (2018) Safety and tracking of intrathecal allogeneic mesenchymal stem cell transplantation in healthy and diseased horses. <u>Stem Cell Res Ther. 9 (1): 96.</u>				
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	macrophage (M1) dendritic cell (DC1) T-helper 1 (CD4 Th1) T-cytotoxic (CD8) immune				
	response <i>in vitro</i> .? <u>J Vet Intern Med. 33 (2): 889-96.</u>				
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	(MoDC) maturation and function after exposure to killed bacteria. <u>Vet Immunol</u>				
	Immunopathol. 210: 38-45.				
	23. Lucassen, A. <i>et al.</i> (2021) A <i>Saccharomyces cerevisiae</i> Fermentation Product				
	(Olimond BB) Alters the Early Response after Influenza Vaccination in Racehorses.				
	Animals (Basel). 18;11(9):2726.				
Further Reading	1. Burk, J. et al. (2013) Equine cellular therapy-from stall to bench to bedside? Cytometry				
	<u>A. 83: 103-13</u>				
Stores					
Storage	Store at +4°C. DO NOT FREEZE.				
	This product should be stored undiluted. This product is photosensitive and should be				
	protected from light. Should this product contain a precipitate we recommend				
	microcentrifugation before use.				
Guarantee	12 months from date of despatch				
Health And Safety	Material Safety Datasheet documentation #20487 available at:				
Information	https://www.bio-rad-antibodies.com/SDS/MCA1085PE				
	20487				
Pogulator:					
Regulatory	For research purposes only				

Related Products

Recommended Useful Reagents

MOUSE ANTI HORSE MHC CLASS I MONOMORPHIC:FITC (MCA1086F) MOUSE ANTI HORSE MHC CLASS I MONOMORPHIC (MCA1086GA)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M375267:210104'

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