

Datasheet: MCA1084F

Description:	MOUSE ANTI HORSE CD13:FITC
Specificity:	CD13
Other names:	AMINOPEPTIDASE N
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CVS19
Isotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications This product has been reported to work in the following applications. This inform									
	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.								
		Yes	No	Not Determine	d 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 recom	mended that	at the user	titrates the antil	body for use in their own				
	system using appropria	te negative/	positive co	ntrols.					
		-							
Target Species	Horse								
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid								
Max Ex/Em	Fluorophore	Excitation M	ax (nm) E	Emission Max (n	m)				
	FITC	490		525					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture								
	supernatant								
Buffer Solution	Phosphate buffered sal	ine							
Preservative	0.09% sodium azide (NaN ₃)								
Stabilisers	1% bovine serum albumin								
Approx. Protein	IaC concentration 0.1 n	ag/ml							
	igo concentration 0.1 h	iy/mi							

Concentrations	
Immunogen	Equine leucocytes.
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse X63-Ag8.653 myeloma cell line.
Specificity	Mouse anti Horse CD13 antibody, clone CVS19 recognizes the equine CD13 cell surface antigen, also known as Aminopeptidase N, a single-pass type II membrane protein belonging to the peptidase N family with a molecular weight of between 150 - 170 kDa.
	CD13 is widely expressed by a range of cell types including all blood neutrophils, basophils, monocytes, fibroblasts, kidney epithelial cells, endothelial cells and mesenchymal stem cells, but not by T or B cells. It is involved in a broad spectrum of biological processes and is believed to be linked to a number of disease states including tumor invasion (<u>Saiki <i>et al.</i> 1993</u>).
	Mouse anti Horse CD13 antibody, clone CVS19 may be used for differentiating myeloid and lymphoid linage cells in tumors of the haematopoietic system.
	In addition to clone CVS19, other <u>CVS</u> clones recognising equine MHC and cell surface antigens are available.
Flow Cytometry	Use 10 μ I of the suggested working dilution to label 10 ⁶ cells in 100 μ I
References	 Kydd, J. <i>et al.</i> (1994) Report of the First International Workshop on Equine Leucocyte Antigens, Cambridge, UK, July 1991. <u>Vet Immunol Immunopathol. 42 (1): 3-60.</u> 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> Loftus J.P <i>et al.</i> (2006) Matrix metalloproteinase-9 in laminae of black walnut extract treated horses correlates with neutrophil abundance. <u>Vet Immunol Immunopathol. 113</u>: <u>267-76.</u> Dunkel, B. <i>et al.</i> (2009) Neutrophil and platelet activation in equine recurrent airway obstruction is associated with increased neutrophil CD13 expression, but not platelet CD41/61 and CD62P or neutrophil-platelet aggregate formation. <u>Vet Immunol Immunopathol. 131: 25-32.</u> Radcliffe, C.H. <i>et al.</i> (2010) Temporal analysis of equine bone marrow aspirate during establishment of putative mesenchymal progenitor cell populations. <u>Stem Cells Dev. 19:</u> <u>269-82.</u> Soboll Hussey, G. <i>et al.</i> (2011) Evaluation of immune responses following infection of ponies with an EHV-1 ORF1/2 deletion mutant. <u>Vet Res. 42: 23.</u> Alaberts, M. <i>et al.</i> (2012) Spermatozoa recruit prostasomes in response to capacitation induction. <u>Biochim Biophys Acta.1834: 2326-35.</u> Maia, L. <i>et al.</i> (2013) Immunophenotypic, immunocytochemistry, ultrastructural, and cytogenetic characterization of mesenchymal stem cells from equine bone marrow. <u>Microsc Res Tech. 76: 618-24.</u> Ziegler, A. <i>et al.</i> (2016) Identification and characterization of equine blood plasmacytoid

	dendritic cells. <u>Dev Comp Immunol. 65: 352-7.</u>							
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. This product is photosensitive and should be protected from light.						
Guarantee 12 months from date of				of despatch				
Health A Informat	nd Safety ion	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1084F 10041						
Regulatory For research purpos			arch purpose:	s only				
North & South America	Tel: +1 800 265 7 Fax: +1 919 878 3 Email: antibody_s	i 7376 Worldwide 8 3751 /_sales_us@bio-rad.com		Tel: +44 (0)1865 852 700 Europe Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com		Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com		
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