

Datasheet: MCA2058A647 BATCH NUMBER 152551

Description:	MOUSE ANTI BOVINE CD1w2:Alexa Fluor® 647			
Specificity:	CD1w2			
Other names:	CD1b			
Format:	ALEXA FLUOR® 647			
Product Type:	Monoclonal Antibody			
Clone:	CC20			
lsotype:	lgG2a			
Quantity:	100 TESTS/1ml			

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-rad-antibodies.com/protocols</u> .					
		Yes No	Not Determined	Suggested Dilution		
	Flow Cytometry	•		Neat		
	Where this antibody has not been tested for use in a particular technique this does					
	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	Bovine					
Species Cross	Reacts with: Sheep, Goat, Dog, Horse, Cat					
Reactivity	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 Alexa Fluor 647 - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	Alexa Fluor®647	650	665			
Preparation	Purified IgG prepared supernatant	by affinity chromato	graphy on Protein A fror	n tissue culture		

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	lg concentration 0.05 mg/ml
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Bovine CD1w2 antibody, clone CC20 recognises the bovine CD1w2 cell surface antigen, a glycoprotein heterodimer of ~12 kDa and ~46 kDa. CD1w2 is expressed by dendritic cells, cortical thymocytes and a minority of medullary thymocytes, with a pattern similar to antibodies of the CD1b cluster in humans.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Siedek, E. <i>et al.</i> (1997) Isolation and characterisation of equine dendritic cells. <u>Vet Immunol Immunopathol. 60 (1-2): 15-31.</u> Hein, W.R. <i>et al.</i> (1991) Summary of workshop findings for leukocyte antigens of sheep. <u>Vet Immunol Immunopathol. 27 (1-3): 28-30.</u> Romero-Palomo, F. <i>et al.</i> (2017) Immunopathologic Changes in the Thymus of Calves Pre-infected with BVDV and Challenged with BHV-1. <u>Transbound Emerg Dis. 64 (2): 574-84.</u> Howard, C.J. <i>et al.</i> (1993) Comparison of CD1 monoclonal antibodies on bovine cells and tissues. <u>Vet Immunol Immunopathol. 39 (1-3): 77-83.</u> Rhind, S.M. (2001) CD1the pathology perspective. <u>Vet Pathol. 38 (6): 611-9.</u> Howard, C.J. & Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). <u>Vet Immunol Immunopathol. 39 (1-3): 25-47.</u> Akesson, C.P. <i>et al.</i> (2008) Phenotypic characterization of intestinal dendritic cells in sheep. <u>Dev Comp Immunol. 32: 837-49.</u> Chan, S.S. <i>et al.</i> (2002) Generation and characterization of ovine dendritic cells derived from peripheral blood monocytes. <u>Immunology. 107: 366-72.</u> Shu, D. <i>et al.</i> (2009) Cutaneous cytokine gene expression and cellular responses in lambs infested with the louse, Bovicola ovis, and following intradermal injection of crude louse antigen. <u>Vet Immunol Immunopathol. 129: 82-92.</u> McNeilly, T.N. <i>et al.</i> (2006) Differential expression of cell surface markers by ovine respiratory tract dendritic cells. <u>J Histochem Cytochem. 54: 1021-30.</u> Mérant, C. <i>et al.</i> (2009) Young foal and adult horse monocyte-derived dendritic cells differ by their degree of phenotypic maturity. <u>Vet Immunol Immunopathol. 131: 1-8.</u> Affolter, V.K. and Moore, P.F. (2002) Localized and disseminated histiocytic sarcoma of dendritic cell origin in dogs. <u>Vet Pathol. 39: 74-83.</u> Moore, P.F. <i>et al.</i> (1996) Canine cutaneous histiocytoma is an epidermotropic Langerhans
	 Langernans cell histocytosis that expresses CD1 and specific beta 2-integrin molecules. <u>Am J Pathol. 148: 1699-708.</u> 14. Bienzle, D. <i>et al.</i> (2003) Immunophenotype and functional properties of feline dendritic cells derived from blood and bone marrow. <u>Vet Immunol Immunopathol. 96: 19-30.</u>

	15. Romero-palomo, F. <i>et al.</i> (2013) Immunohistochemical detection of dendritic cell markers in cattle. <u>Vet Pathol. 50 (6): 1099-108.</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.				
Guarantee	12 months from date of despatch				
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com				
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2058A647 10041				
Regulatory	For research purposes only				

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 (MCA929A647)

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-ra	d.com	Email: antibody_sales_uk@bio-r	ad.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 'M387723:210713'

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