

Datasheet: MCA2058PE

BATCH NUMBER INN1609

Description:	MOUSE ANTI BOVINE CD1w2:RPE		
Specificity:	CD1w2		
Other names:	CD1b		
Format:	RPE		
Product Type:	Monoclonal Antibody		
Clone:	CC20		
Isotype:	IgG2a		
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat - 1/5

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	Bovine			
Species Cross Reactivity	reactivity is derived from	ity and working condition testing within our I	ions may vary between species. Cros aboratories, peer-reviewed publication ors. Please refer to references indicate	ns or
Product Form	Purified IgG conjugate	ed to R. Phycoerythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1 m	l distilled water		
Max Ex/Em	Fluorophore RPE 488nm laser	Excitation Max (nm) 496	Emission Max (nm) 578	
Preparation	Purified IgG prepared	by affinity chromatog	raphy on Protein A from tissue culture	e

supernatant

Buffer Solution	Phosphate buffered saline			
Preservative	0.09% Sodium Azide			
Stabilisers	1% Bovine Serum Albumin			
	5% Sucrose			
RRID	AB_609584			
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

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- 2. Hein, W.R. *et al.* (1991) Summary of workshop findings for leukocyte antigens of sheep. Vet Immunol Immunopathol. 27 (1-3): 28-30.
- 3. Romero-Palomo, F. *et al.* (2017) Immunopathologic Changes in the Thymus of Calves Pre-infected with BVDV and Challenged with BHV-1. <u>Transbound Emerg Dis. 64 (2):</u> 574-84.
- 4. Howard, C.J. *et al.* (1993) Comparison of CD1 monoclonal antibodies on bovine cells and tissues. <u>Vet Immunol Immunopathol.</u> 39 (1-3): 77-83.
- 5. Rhind, S.M. (2001) CD1--the pathology perspective. Vet Pathol. 38 (6): 611-9.
- 6. 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>
- 7. Åkesson, C.P. *et al.* (2008) Phenotypic characterisation of intestinal dendritic cells in sheep. <u>Dev Comp Immunol. 32: 837-49.</u>
- 8. Chan, S.S. *et al.* (2002) Generation and characterization of ovine dendritic cells derived from peripheral blood monocytes. <u>Immunology</u>. 107: 366-72.
- 9. Shu, D. *et al.* (2009) Cutaneous cytokine gene expression and cellular responses in lambs infested with the louse, Bovicola ovis, and following intradermal injection of crude louse antigen. Vet Immunol Immunopathol. 129: 82-92.
- 10. McNeilly, T.N. *et al.* (2006) Differential expression of cell surface markers by ovine respiratory tract dendritic cells. <u>J Histochem Cytochem. 54: 1021-30.</u>
- 11. Mérant, C. *et al.* (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>
- 12. 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>
- 13. Moore, P.F. *et al.* (1996) Canine cutaneous histiocytoma is an epidermotropic Langerhans cell histiocytosis that expresses CD1 and specific beta 2-integrin molecules.

Am J Pathol. 148: 1699-708.

14. Bienzle, D. *et al.* (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. *et al.* (2013) Immunohistochemical detection of dendritic cell

markers in cattle. Vet Pathol. 50 (6): 1099-108.

Storage Prior to reconstitution store at +4°C.

After reconstitution store at +4°C.

DO NOT FREEZE. 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:

https://www.bio-rad-antibodies.com/SDS/MCA2058PE

20487

Regulatory For research purposes only

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Information

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Recommended Negative Controls

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MOUSE IgG2a NEGATIVE CONTROL:RPE (MCA929PE)

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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 'M375410:210104'

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Printed on 18 Jan 2024

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