

Datasheet: MCA2058PE

BATCH NUMBER 154032

Description:	MOUSE ANTI BOVINE CD1w2:RPE
Specificity:	CD1w2
Other names:	CD1b
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CC20
Isotype:	lgG2a
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	Reacts with: Sheep, (Goat, Dog, Horse, Cat		
Reactivity	reactivity is derived fr	om testing within our l	ions may vary between aboratories, peer-revie ors. Please refer to refe	wed publications or
Product Form	Purified IgG conjugat	ed to R. Phycoerythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1 m	ıl distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	

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

Related Products

Information

America

Recommended Negative Controls

Fax: +1 919 878 3751

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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