

## Datasheet: MCA2058PE

<b>Description:</b>	MOUSE ANTI BOVINE CD1w2:RPE
<b>Specificity:</b>	CD1w2
<b>Other names:</b>	CD1b
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CC20
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Bovine		
<b>Species Cross Reactivity</b>	Reacts with: Sheep, Goat, Dog, Horse, Cat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
	5% Sucrose		
<b>Fusion Partners</b>	Spleen cells from immunised mice were fused with cells of the mouse NS1 myeloma cell line.		

<b>Specificity</b>	<b>Mouse anti Bovine CD1w2 antibody, clone CC20</b> 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.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Siedek, E. <i>et al.</i> (1997) Isolation and characterisation of equine dendritic cells. <a href="#">Vet Immunol Immunopathol. 60 (1-2): 15-31.</a></li> <li>2. Hein, W.R. <i>et al.</i> (1991) Summary of workshop findings for leukocyte antigens of sheep. <a href="#">Vet Immunol Immunopathol. 27 (1-3): 28-30.</a></li> <li>3. Romero-Palomo, F. <i>et al.</i> (2015) Immunopathologic Changes in the Thymus of Calves Pre-infected with BVDV and Challenged with BHV-1. <a href="#">Transbound Emerg Dis. Aug 25. [Epub ahead of print]</a></li> <li>4. Howard, C.J. <i>et al.</i> (1993) Comparison of CD1 monoclonal antibodies on bovine cells and tissues. <a href="#">Vet Immunol Immunopathol. 39 (1-3): 77-83.</a></li> <li>5. Rhind, S.M. (2001) CD1--the pathology perspective. <a href="#">Vet Pathol. 38 (6): 611-9.</a></li> <li>6. Howard, C.J. &amp; Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). <a href="#">Vet Immunol Immunopathol. 39 (1-3): 25-47.</a></li> <li>7. Åkesson, C.P. <i>et al.</i> (2008) Phenotypic characterisation of intestinal dendritic cells in sheep. <a href="#">Dev Comp Immunol. 32: 837-49.</a></li> <li>8. Chan, S.S. <i>et al.</i> (2002) Generation and characterization of ovine dendritic cells derived from peripheral blood monocytes. <a href="#">Immunology. 107: 366-72.</a></li> <li>9. Shu, D. <i>et al.</i> (2009) Cutaneous cytokine gene expression and cellular responses in lambs infested with the louse, <i>Bovicola ovis</i>, and following intradermal injection of crude louse antigen. <a href="#">Vet Immunol Immunopathol. 129: 82-92.</a></li> <li>10. McNeilly, T.N. <i>et al.</i> (2006) Differential expression of cell surface markers by ovine respiratory tract dendritic cells. <a href="#">J Histochem Cytochem. 54: 1021-30.</a></li> <li>11. Mé rant, C. <i>et al.</i> (2009) Young foal and adult horse monocyte-derived dendritic cells differ by their degree of phenotypic maturity. <a href="#">Vet Immunol Immunopathol. 131: 1-8.</a></li> <li>12. Affolter, V.K. and Moore, P.F. (2002) Localized and disseminated histiocytic sarcoma of dendritic cell origin in dogs. <a href="#">Vet Pathol. 39: 74-83.</a></li> <li>13. Moore, P.F. <i>et al.</i> (1996) Canine cutaneous histiocytoma is an epidermotropic Langerhans cell histiocytosis that expresses CD1 and specific beta 2-integrin molecules. <a href="#">Am J Pathol. 148: 1699-708.</a></li> <li>14. Bienzle, D. <i>et al.</i> (2003) Immunophenotype and functional properties of feline dendritic cells derived from blood and bone marrow. <a href="#">Vet Immunol Immunopathol. 96: 19-30.</a></li> <li>15. Romero-palomo, F. <i>et al.</i> (2013) Immunohistochemical detection of dendritic cell markers in cattle. <a href="#">Vet Pathol. 50 (6): 1099-108.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Shelf Life</b>	12 months from date of reconstitution.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:RPE \(MCA929PE\)](#)

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