

## Datasheet: MCA2443PA

<b>Description:</b>	MOUSE ANTI BOVINE IgM:HRP
<b>Specificity:</b>	IgM
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	IL-A30
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

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>Product Form</b>	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
<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 Stabilisers</b>	HRP Stabiliser ( <a href="#">BUF052A</a> ) 0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml

<b>Immunogen</b>	Bovine peripheral blood mononuclear cells depleted of T lymphocytes.
<b>RRID</b>	AB_10845152
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Bovine IgM, clone IL-A30</b> recognizes bovine IgM, expressed by bovine B-cells. Clone IL-A30 reacts with both serum IgM and cell surface IgM expressed by B lymphocytes. Mouse anti Bovine IgM, clone IL-A30 recognizes a monomorphic epitope within bovine IgM (<a href="#">Naessens et al.1988</a>).</p> <p>Studies using clone IL-A30 have demonstrated that the percentage of IgM<sup>+ve</sup> lymphocytes may vary widely ,ranging between 4 - 30%, within populations of healthy cattle, however the percentage of positive cells remains relatively constant within individual animals (<a href="#">Naessens et al.1988</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Naessens, J. <i>et al.</i> (1988) Identification of isotypes and allotypes of bovine immunoglobulin M with monoclonal antibodies. <a href="#">Immunology. 63 (4): 569-74.</a></li> <li>2. Williams, D.J. <i>et al.</i> (1990) Quantitation of bovine immunoglobulin isotypes and allotypes using monoclonal antibodies. <a href="#">Vet Immunol Immunopathol. 24 (3): 267-83.</a></li> <li>3. Campbell, J.D. <i>et al.</i> (1998) A novel cell surface proliferation-associated marker expressed on T cells and up-regulated on germinal center B cells. <a href="#">J Leukoc Biol. 63 (5): 567-74.</a></li> <li>4. Menge, C. <i>et al.</i> (2004) Bovine ileal intraepithelial lymphocytes represent target cells for Shiga toxin 1 from <i>Escherichia coli</i>. <a href="#">Infect Immun. 72 (4): 1896-905.</a></li> <li>5. Naessens, J. (1997) Surface Ig on B lymphocytes from cattle and sheep. <a href="#">Int Immunol. 9 (3): 349-54.</a></li> <li>6. Morrison, W.I. <i>et al.</i> (1996) Pathogenicity of <i>Theileria parva</i> is influenced by the host cell type infected by the parasite. <a href="#">Infect Immun. 64 (2): 557-62.</a></li> <li>7. Nishimori, A. <i>et al.</i> (2016) Direct polymerase chain reaction from blood and tissue samples for rapid diagnosis of bovine leukemia virus infection. <a href="#">J Vet Med Sci. 78 (5): 791-6.</a></li> <li>8. Sei, J.J. <i>et al.</i> (2016) Effect of Foot-and-Mouth Disease Virus Infection on the Frequency, Phenotype and Function of Circulating Dendritic Cells in Cattle. <a href="#">PLoS One. 11 (3): e0152192.</a></li> <li>9. Goh, S. <i>et al.</i> (2016) Identification of <i>Theileria lestoquardi</i> Antigens Recognized by CD8+ T Cells. <a href="#">PLoS One. 11 (9): e0162571.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10131 available at: 10131: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10131.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10131.pdf</a></p>

## Related Products

### Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto: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](https://bio-rad-antibodies.com/datasheets)

'M366917:200529'

Printed on 07 Jan 2022

---