

Datasheet: MCA2443PA

Description:	MOUSE ANTI BOVINE IgM:HRP
Specificity:	IgM
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	IL-A30
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Bovine
Product Form	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	HRP Stabiliser (BUF052A)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Bovine peripheral blood mononuclear cells depleted of T lymphocytes.
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 myeloma cell line

Specificity **Mouse anti Bovine IgM, clone IL-A30** 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 ([Naessens et al.1988](#)).

Studies using clone IL-A30 have demonstrated that the percentage of IgM⁺ 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 ([Naessens et al.1988](#)).

References

1. Naessens, J. *et al.* (1988) Identification of isotypes and allotypes of bovine immunoglobulin M with monoclonal antibodies. [Immunology. 63 \(4\): 569-74.](#)
2. Williams, D.J. *et al.* (1990) Quantitation of bovine immunoglobulin isotypes and allotypes using monoclonal antibodies. [Vet Immunol Immunopathol. 24 \(3\): 267-83.](#)
3. Campbell, J.D. *et al.* (1998) A novel cell surface proliferation-associated marker expressed on T cells and up-regulated on germinal center B cells. [J Leukoc Biol. 63 \(5\): 567-74.](#)
4. Menge, C. *et al.* (2004) Bovine ileal intraepithelial lymphocytes represent target cells for Shiga toxin 1 from *Escherichia coli*. [Infect Immun. 72 \(4\): 1896-905.](#)
5. Naessens, J. (1997) Surface Ig on B lymphocytes from cattle and sheep. [Int Immunol. 9 \(3\): 349-54.](#)
6. Morrison, W.I. *et al.* (1996) Pathogenicity of *Theileria parva* is influenced by the host cell type infected by the parasite. [Infect Immun. 64 \(2\): 557-62.](#)
7. Nishimori, A. *et al.* (2016) Direct polymerase chain reaction from blood and tissue samples for rapid diagnosis of bovine leukemia virus infection. [J Vet Med Sci. 78 \(5\): 791-6.](#)
8. Sei, J.J. *et al.* (2016) Effect of Foot-and-Mouth Disease Virus Infection on the Frequency, Phenotype and Function of Circulating Dendritic Cells in Cattle. [PLoS One. 11 \(3\): e0152192.](#)
9. Goh, S. *et al.* (2016) Identification of *Theileria lestoquardi* Antigens Recognized by CD8+ T Cells. [PLoS One. 11 \(9\): e0162571.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10094 available at:
10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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

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

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: 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

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

'M314676:180412'

