

## Datasheet: MCA2440P

**BATCH NUMBER 1710**

<b>Description:</b>	MOUSE ANTI BOVINE IgG1:HRP
<b>Specificity:</b>	IgG1
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	IL-A60
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.25 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	▪			1/100 - 1/1000
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>	0.01% Thiomersal HRP Stabiliser ( <a href="#">BUF052A</a> )
<b>Approx. Protein</b>	IgG concentration 1.0 mg/ml

## Concentrations

**Immunogen** Purified bovine Immunoglobulin.

**RRID** AB\_1605095

**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag.653 myeloma cell line.

**Specificity** **Mouse anti Bovine IgG1 antibody, clone IL-A60** recognizes bovine IgG1. Mouse anti Bovine IgG1 antibody, clone IL-A60 immunoprecipitates a protein band of 55-59 kDa, consistent with the heavy chain of bovine IgG1 ([Campbell et al. 1998](#)).

## References

1. 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.](#)
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. Williams, D.J. *et al.* (1996) The role of anti-variable surface glycoprotein antibody responses in bovine trypanotolerance. [Parasite Immunol. 18 \(4\): 209-18.](#)
4. Hecker YP *et al.* (2014) A *Neospora caninum* vaccine using recombinant proteins fails to prevent foetal infection in pregnant cattle after experimental intravenous challenge. [Vet Immunol Immunopathol. 162 \(3-4\): 142-53.](#)
5. Dorneles, E.M. *et al.* (2015) Immune Response of Calves Vaccinated with *Brucella abortus* S19 or RB51 and Revaccinated with RB51. [PLoS One. 10 \(9\): e0136696.](#)
6. Hecker, Y.P. *et al.* (2019) Immune response to *Neospora caninum* live tachyzoites in prepubertal female calves. [Parasitol Res. 118 \(10\): 2945-55.](#)
7. Pereyra, R. *et al.* (2019) Evidence of reduced vertical transmission of *Neospora caninum*. associated with higher IgG1 than IgG2 serum levels and presence of IFN- $\gamma$  in non-aborting chronically infected cattle under natural condition. [Vet Immunol Immunopathol. 208: 53-57.](#)
8. Jaramillo, J.O. *et al.* (2019) Immunisation of cattle against *Babesia bovis*. combining a multi-epitope modified vaccinia Ankara virus and a recombinant protein induce strong Th1 cell responses but fails to trigger neutralising antibodies required for protection. [Ticks Tick Borne Dis. 10 \(6\): 101270.](#)

## Storage

Store at +4°C. DO NOT FREEZE.

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.

## Guarantee

12 months from date of despatch

## Health And Safety Information

Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2440P>  
10094

## Regulatory

For research purposes only

## Related Products

### Recommended Useful Reagents

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

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

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

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

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