

Datasheet: MCA2441P BATCH NUMBER 166599

Description:	MOUSE ANTI BOVINE IgG2:HRP		
Specificity:	lgG2		
Format:	HRP		
Product Type:	Monoclonal Antibody		
Clone:	IL-A73		
Isotype:	lgG2a		
Quantity:	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.

	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.

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	0.01% Thiomersal
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen	Purified bovine IgG2
RRID	AB_1605096
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the X63.Ag8.653 myeloma cell line
Specificity	Mouse anti Bovine IgG2, clone IL-A73 , is a monoclonal antibody specific for bovine IgG2 and does not recognise other bovine immunoglobulin classes.
	While normal serum levels of IgG1 are relatively constant in cattle at around 50%, IgG2 levels are highly variable between different strains and races.
	Mouse anti Bovine IgG2, clone IL-A73 immunoprecipitates a protein band of approximately 52-59kDa, consistent with the heavy chain of bovine IgG2 (<u>Campbell et al.</u> 1998).
References	1. Campbell, J.D. <i>et al.</i> (1998) A novel cell surface proliferation-associated marker

- 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. <u>J Leukoc Biol. 63 (5):</u> 567-74.
- 2. Williams, D.J. *et al.* (1990) Quantitation of bovine immunoglobulin isotypes and allotypes using monoclonal antibodies. <u>Vet Immunol Immunopathol. 24 (3): 267-83.</u>
- 3. Williams, D.J. *et al.* (1996) The role of anti-variable surface glycoprotein antibody responses in bovine trypanotolerance. <u>Parasite Immunol. 18 (4): 209-18.</u>
- 4. Hecker, Y.P. *et al.* (2014) A *Neospora caninum* vaccine using recombinant proteins fails to prevent foetal infection in pregnant cattle after experimental intravenous challenge. <u>Vet Immunol Immunopathol. 162 (3-4): 142-53.</u>
- 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. 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-γ in non-aborting chronically infected cattle under natural condition. <u>Vet Immunol Immunopathol</u>. 208: 53-57.
- 7. 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. <u>Ticks Tick</u> Borne Dis. 10 (6): 101270.
- 8. Villa-Mancera, A. *et al.* (2021) Phage display-based vaccine with cathepsin L and excretory-secretory products mimotopes of *Fasciola hepatica*. induces protective cellular and humoral immune responses in sheep. Vet Parasitol. 289: 109340.
- 9. Di Giacomo, S. *et al.* (2022) Assessment on Different Vaccine Formulation Parameters in the Protection against Heterologous Challenge with FMDV in Cattle. <u>Viruses. 14 (8): 1781.</u>

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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/MCA2441P 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)
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TMB CORE+ (BUF062A)
TMB SIGNAL+ (BUF054A)

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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 'M422606:230919'

Printed on 24 Apr 2024

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