Datasheet: MCA2438P

BATCH NUMBER 159422

Description:	MOUSE ANTI BOVINE IgA:HRP
Specificity:	IgA
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	IL-A71
Isotype:	IgG2a
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	▪			
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 Immunoglobulin
RRID	AB_10567988
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 IgA, clone IL-A71**, is specific for bovine immunoglobulin A (IgA). IgA is the predominant surface secreted immunoglobulin from the intestinal, urogenital and respiratory tracts. IgA functions in a protective capacity, primarily, by preventing viruses and bacteria from adhering to epithelial tissues. High concentrations of IgA are found in saliva, colostrum, milk, tear duct fluid, urine and nasal fluid. Clone IL-A71 is reported to immunoprecipitate bands of approximately 62kDa and 75kDa, which is consistent with the heavy chain and the secretory component of IgA (Williams *et al.* 1990). In addition to clone IL-A71 which is specific for bovine IgA, monoclonal antibodies recognizing the other major bovine immunoglobulin classes and sub-classes are also available from Bio-Rad.
References	1. Williams, D.J. *et al.* (1990) Quantitation of bovine immunoglobulin isotypes and allotypes using monoclonal antibodies. Vet Immunol Immunopathol. 24 (3): 267-83. 2. van Dissel, J.T. *et al.* (2005) Bovine antibody-enriched whey to aid in the prevention of a relapse of *Clostridium difficile*-associated diarrhoea: preclinical and preliminary clinical data. J Med Microbiol. 54 (Pt 2): 197-205. 3. Sridevi, N.V. *et al.* (2014) Development of anti-bovine IgA single chain variable fragment and its application in diagnosis of foot-and-mouth disease. Eur J Microbiol Immunol (Bp). 4 (1): 34-44. 4. Hägglund, S. *et al.* (2011) Bovine respiratory syncytial virus ISCOMs-Immunity, protection and safety in young conventional calves. Vaccine. 29 (47): 8719-30. 5. Mwirigi, M. *et al.* (2016) Capsular polysaccharide from *Mycoplasma mycoides* subsp. *mycoides* shows potential for protection against contagious bovine pleuropneumonia. Vet Immunol Immunopathol. 178: 64-9. 6. Blodörn, K. *et al.* (2014) Vaccine safety and efficacy evaluation of a recombinant bovine respiratory syncytial virus (BRSV) with deletion of the SH gene and subunit vaccines based on recombinant human RSV proteins: N-nanorings, P and M2-1, in calves with maternal antibodies. PLoS One. 9 (6): e100392. 7. Ribeiro, L.E. *et al.* (2021) Selection and characterization of peptides mimetic to *Campylobacter fetus.* subsp. *venerealis.* using phage display. Ciêia Rural 51 (8) [Epub ahead of print].
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/MCA2438P 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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