

Datasheet: MCA2438GA

Description:	MOUSE ANTI BOVINE IgA
Specificity:	IgA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	IL-A71
Isotype:	IgG2a
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	▪			1/50 - 1/5000
Immunoprecipitation	▪			
Western Blotting			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Bovine
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified bovine Immunoglobulin
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 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, D.J. 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.](#)

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 #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

Recommended Useful Reagents

[MOUSE ANTI BOVINE IgG \(MCA2439GA\)](#)
[MOUSE ANTI BOVINE IgG1 \(MCA2440GA\)](#)
[MOUSE ANTI BOVINE IgG2 \(MCA2441GA\)](#)
[MOUSE ANTI BOVINE IgM \(MCA2443GA\)](#)
[MOUSE ANTI SHEEP IgE \(MCA5941GA\)](#)

North & South Tel: +1 800 265 7376

America 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

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