

## Datasheet: MCA2438GA

**BATCH NUMBER 163359**

<b>Description:</b>	MOUSE ANTI BOVINE IgA
<b>Specificity:</b>	IgA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	IL-A71
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Bovine
<b>Product Form</b>	Purified IgG - 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>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Purified bovine Immunoglobulin
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Bovine IgA, clone IL-A71</b>, is specific for bovine immunoglobulin A (IgA).</p> <p>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.</p> <p>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 (<a href="#">Williams et al. 1990</a>).</p> <p>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.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Williams, D.J. <i>et al.</i> (1990) Quantitation of bovine immunoglobulin isotypes and allotypes using monoclonal antibodies. <a href="#">Vet Immunol Immunopathol. 24 (3): 267-83.</a></li> <li>van Dissel, J.T. <i>et al.</i> (2005) Bovine antibody-enriched whey to aid in the prevention of a relapse of <i>Clostridium difficile</i>-associated diarrhoea: preclinical and preliminary clinical data. <a href="#">J Med Microbiol. 54 (Pt 2): 197-205.</a></li> <li>Sridevi, N.V. <i>et al.</i> (2014) Development of anti-bovine IgA single chain variable fragment and its application in diagnosis of foot-and-mouth disease. <a href="#">Eur J Microbiol Immunol (Bp). 4 (1): 34-44.</a></li> <li>Hägglund, S. <i>et al.</i> (2011) Bovine respiratory syncytial virus ISCOMs-Immunity, protection and safety in young conventional calves. <a href="#">Vaccine. 29 (47): 8719-30.</a></li> <li>Mwirigi, M. <i>et al.</i> (2016) Capsular polysaccharide from <i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> shows potential for protection against contagious bovine pleuropneumonia. <a href="#">Vet Immunol Immunopathol. 178: 64-9.</a></li> <li>Blodörn, K. <i>et al.</i> (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. <a href="#">PLoS One. 9 (6): e100392.</a></li> <li>Ribeiro, L.E. <i>et al.</i> (2021) Selection and characterization of peptides mimetic to <i>Campylobacter fetus</i>. subsp. <i>venerealis</i>. using phage display. <a href="#">Ciênia Rural 51 (8) [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2438GA">https://www.bio-rad-antibodies.com/SDS/MCA2438GA</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Human Anti Mouse IgG2a (HCA037...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>

### 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 \(MCA5941GA\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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Printed on 25 Mar 2023