

## Datasheet: MCA626GA

<b>Description:</b>	MOUSE ANTI BOVINE IgG2
<b>Specificity:</b>	IgG2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	K192 4F10
<b>Isotype:</b>	IgG1
<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	▪			
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 IgG
<b>Fusion Partners</b>	Spleen cells from immunised mice were fused with cells of the P3.X63.Ag8.653 myeloma cell line
<b>Specificity</b>	<b>Mouse anti Bovine IgG2, clone K192 4F10</b> , is a monoclonal antibody specific for bovine IgG2, recognizing both the homozygous A1/A1 & heterozygous A1/A2 allotypes ( <a href="#">Kacskovics &amp; JButler 1996</a> ) and does not recognize other bovine immunoglobulin classes.
<b>ELISA</b>	This product is suitable for use in direct ELISA applications
<b>References</b>	<ol style="list-style-type: none"> <li>Estes, D. M. <i>et al.</i> (1998) Effects of type I/type II interferons and transforming growth factor-beta on B-cell differentiation and proliferation. Definition of costimulation and cytokine requirements for immunoglobulin synthesis and expression. <a href="#">Immunology 95: 604-611.</a></li> <li>Wyatt, C.R. <i>et al.</i> (2001) Evidence for the emergence of a type-1-like immune response in intestinal mucosa of calves recovering from cryptosporidiosis. <a href="#">J Parasitol. 87: 90-5.</a></li> <li>Abbott, J.R. <i>et al.</i> (2005) Rapid and long-term disappearance of CD4+ T lymphocyte responses specific for <i>Anaplasma marginale</i> major surface protein-2 (MSP2) in MSP2 vaccinates following challenge with live <i>A. marginale</i>. <a href="#">J Immunol. 174: 6702-15.</a></li> <li>Arulkanthan, A. <i>et al.</i> (1999) Biased immunoglobulin G1 isotype responses induced in cattle with DNA expressing msp1a of <i>Anaplasma marginale</i>. <a href="#">Infect Immun. 67: 3481-7.</a></li> <li>Barrio, M.B. <i>et al.</i> (2003) Assessment of the opsonic activity of purified bovine sIgA following intramammary immunization of cows with <i>Staphylococcus aureus</i>. <a href="#">J Dairy Sci. 86: 2884-94.</a></li> <li>French, D.M. <i>et al.</i> (1999) Emergence of <i>Anaplasma marginale</i> antigenic variants during persistent rickettsemia. <a href="#">Infect Immun. 67: 5834-40.</a></li> <li>Han, S. <i>et al.</i> (2010) <i>Anaplasma marginale</i> infection with persistent high-load bacteremia induces a dysfunctional memory CD4+ T lymphocyte response but sustained high IgG titers. <a href="#">Clin Vaccine Immunol. 17: 1881-90.</a></li> <li>Kooyman, F.N. <i>et al.</i> (2007) Antibodies elicited by the bovine lungworm, <i>Dictyocaulus viviparus</i>, cross-react with platelet-activating factor. <a href="#">Infect Immun. 75: 4456-62.</a></li> <li>Morton, H.C. <i>et al.</i> (2001) Identification of residues within the extracellular domain 1 of bovine Fc gamma 2R essential for binding bovine IgG2. <a href="#">J Biol Chem. 276: 47794-800.</a></li> <li>Salem, E. <i>et al.</i> (2019) Pathogenesis, Host Innate Immune Response, and Aerosol Transmission of Influenza D Virus in Cattle. <a href="#">J Virol. 93(7):e01853-18.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA626GA">https://www.bio-rad-antibodies.com/SDS/MCA626GA</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</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>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)  
'M405613:220916'

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