

## Datasheet: MCA628GA

**BATCH NUMBER 1607**

<b>Description:</b>	MOUSE ANTI BOVINE/OVINE IgA
<b>Specificity:</b>	IgA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	K84 2F9
<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	▪			1/5000 - 1/80,000
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>Species Cross Reactivity</b>	<p>Reacts with: Sheep</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	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 <sub>3</sub> )
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Bovine IgA.
Fusion Partners	Spleen cells from immunised mice were fused with cells of the P3.X63.Ag8.653 myeloma cell line.
Specificity	<b>Mouse anti Bovine IgA antibody, clone K84 2F9</b> recognizes bovine and ovine IgA. No cross reactivity is observed with Bovine or Ovine IgG and IgM,
References	<ol style="list-style-type: none"> <li>1. 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 (4): 604-11.</a></li> <li>2. Surraud, V. <i>et al.</i> (2008) Acute infection by conjunctival route with <i>Brucella melitensis</i> induces IgG+ cells and IFN-gamma producing cells in peripheral and mucosal lymph nodes in sheep. <a href="#">Microbes Infect. 10: 1370-8.</a></li> <li>3. Hassan, M. <i>et al.</i> (2011) The dynamic influence of the DRB1*1101 allele on the resistance of sheep to experimental <i>Teladorsagia circumcincta</i> infection. <a href="#">Vet Res. 42: 46.</a></li> <li>4. Tzelos, T. <i>et al.</i> (2016) A preliminary proteomic characterisation of extracellular vesicles released by the ovine parasitic nematode, <i>Teladorsagia circumcincta</i> <a href="#">Veterinary Parasitology. Mar 17 [Epub ahead of print]</a></li> <li>5. Stanley AC <i>et al.</i> (2004) Intranasal immunisation with <i>Toxoplasma gondii</i> tachyzoite antigen encapsulated into PLG microspheres induces humoral and cell-mediated immunity in sheep. <a href="#">Vaccine. 22 (29-30): 3929-41.</a></li> <li>6. McNeilly, T.N. <i>et al.</i> (2007) Simple methods for measurement of bovine mucosal antibody responses <i>in vivo</i>. <a href="#">Vet Immunol Immunopathol. 118 (1-2): 160-7.</a></li> <li>7. McNeilly, T.N. <i>et al.</i> (2010) IgA and IgG antibody responses following systemic immunization of cattle with native H7 flagellin differ in epitope recognition and capacity to neutralise TLR5 signalling. <a href="#">Vaccine. 28 (5): 1412-21.</a></li> <li>8. McNeilly, T.N. <i>et al.</i> (2010) Immunization of cattle with a combination of purified intimin-531, EspA and Tir significantly reduces shedding of <i>Escherichia coli</i> O157:H7 following oral challenge. <a href="#">Vaccine. 28 (5): 1422-8.</a></li> <li>9. Surraud, V. <i>et al.</i> (2007) Differential expression of homing receptors and vascular addressins in tonsils and draining lymph nodes: Effect of <i>Brucella</i> infection in sheep. <a href="#">Vet Immunol Immunopathol. 115 (3-4): 239-50.</a></li> <li>10. Mahajan, A. <i>et al.</i> (2005) Phenotypic and functional characterisation of follicle-associated epithelium of rectal lymphoid tissue. <a href="#">Cell Tissue Res. 321 (3): 365-74.</a></li> <li>11. Parreño, V.<i>et al.</i> (2004) Modulation by colostrum-acquired maternal antibodies of systemic and mucosal antibody responses to rotavirus in calves experimentally challenged</li> </ol>

with bovine rotavirus. [Vet Immunol Immunopathol. 100 \(1-2\): 7-24.](#)

12. Mahajan, A. *et al.* (2009) An investigation of the expression and adhesin function of H7 flagella in the interaction of *Escherichia coli* O157 : H7 with bovine intestinal epithelium. [Cell Microbiol. 11 \(1\): 121-37.](#)

13. McNeilly, T.N. *et al.* (2013) Suppression of ovine lymphocyte activation by *Teladorsagia circumcincta* larval excretory-secretory products. [Vet Res. 44: 70.](#)

14. Nisbet, A. J. *et al.* (2016) Protection of ewes against *Teladorsagia circumcincta* infection in the periparturient period by vaccination with recombinant antigens [Veterinary Parasitology. 228: 130-6.](#)

<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<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/MCA628GA">https://www.bio-rad-antibodies.com/SDS/MCA628GA</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Useful Reagents

[MOUSE ANTI SHEEP IgE \(MCA5941GA\)](#)  
[MOUSE ANTI BOVINE IgG1 \(MCA627GA\)](#)  
[MOUSE ANTI BOVINE IgA \(MCA2438GA\)](#)  
[MOUSE ANTI BOVINE IgA:HRP \(MCA2438P\)](#)  
[MOUSE ANTI BOVINE IgG \(MCA2439GA\)](#)  
[MOUSE ANTI BOVINE IgG:HRP \(MCA2439P\)](#)  
[MOUSE ANTI BOVINE IgG1 \(MCA2440GA\)](#)  
[MOUSE ANTI BOVINE IgG1:HRP \(MCA2440P\)](#)  
[MOUSE ANTI BOVINE IgG2 \(MCA2441GA\)](#)

[MOUSE ANTI BOVINE IgG2:HRP \(MCA2441P\)](#)  
[MOUSE ANTI BOVINE IgM \(MCA2443GA\)](#)

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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)  
'M368732:200529'

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