

Datasheet: MCA628GA

BATCH NUMBER 170199

Description:	MOUSE ANTI BOVINE/OVINE IgA
Specificity:	IgA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	K84 2F9
Isotype:	IgG1
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	▪			1/5000 - 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.

Target Species	Bovine
Species Cross Reactivity	<p>Reacts with: Sheep</p> <p>N.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>
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	Bovine IgA.
Fusion Partners	Spleen cells from immunized mice were fused with cells of the P3.X63.Ag8.653 myeloma cell line.
Specificity	Mouse anti Bovine IgA antibody, clone K84 2F9 recognizes bovine and ovine IgA. No cross reactivity is observed with Bovine or Ovine IgG and IgM,
References	<ol style="list-style-type: none"> 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. Immunology. 95 (4): 604-11. Suraud, 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. Microbes Infect. 10: 1370-8. 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 with bovine rotavirus. Vet Immunol Immunopathol. 100 (1-2): 7-24. 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. Vet Res. 42: 46. 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. Vaccine. 22 (29-30): 3929-41. Tzelos, T. <i>et al.</i> (2016) A preliminary proteomic characterisation of extracellular vesicles released by the ovine parasitic nematode, <i>Teladorsagia circumcincta</i>.. Vet Parasitol. 221: 84-92. Mahajan, A. <i>et al.</i> (2005) Phenotypic and functional characterisation of follicle-associated epithelium of rectal lymphoid tissue. Cell Tissue Res. 321 (3): 365-74. Suraud, 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. Vet Immunol Immunopathol. 115 (3-4): 239-50. McNeilly, T.N. <i>et al.</i> (2007) Simple methods for measurement of bovine mucosal antibody responses <i>in vivo</i>. Vet Immunol Immunopathol. 118 (1-2): 160-7. 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. Vaccine. 28 (5): 1412-21. 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. [Vaccine. 28 \(5\): 1422-8.](#)

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. [Vet Parasitol. 228: 130-6.](#)

15. Queiroga, M.C. (2018) Local and systemic humoral response to ovine mastitis caused by *Staphylococcus epidermidis*. [SAGE Open Med. 6: 2050312118801466.](#)

16. McBean, D. *et al.* (2023) Immune markers in goats selected for reduced gastrointestinal nematode egg count under artificial infection conditions. [Vet Parasitol. 322: 110004.](#)

17. Palarea-Albaladejo, J. *et al.* (2024) A curated multivariate approach to study efficacy and optimisation of a prototype vaccine against teladorsagiasis in sheep. [Vet Res Commun. 48 \(1\): 367-79.](#)

18. Nisbet, A.J. *et al.* (2024) Field testing of recombinant subunit vaccines against *Teladorsagia circumcincta* in lambing ewes demonstrates a lack of efficacy in the face of a multi-species parasite challenge [Frontiers in Parasitology. 3: 25 Mar \[Epub ahead of print\].](#)

19. Zanzani, S.A. *et al.* (2020) Gastrointestinal nematode infections in goats: differences between strongyle faecal egg counts and specific antibody responses to *Teladorsagia circumcincta* in Nera di Verzasca and Alpine goats. [Parasitol Res. 119 \(8\): 2539-2548.](#)

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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA628GA>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

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

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

Goat Anti Mouse IgG (STAR76...) [RPE](#)

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

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

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

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

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

Recommended Negative Controls

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

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 \(MCA2443GA\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M381448:210512'

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