

Datasheet: MCA627GA

BATCH NUMBER 173392

Description:	MOUSE ANTI BOVINE IgG1
Specificity:	IgG1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	K37 2G6
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	▪			
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 G 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 IgG1.
Fusion Partners	Spleen cells from immunized mice were fused with cells of the P3.X63.Ag8.653 myeloma cell line
Specificity	<p>Mouse anti Bovine IgG1, clone K37 2G6, recognizes bovine IgG1 and does not cross react with other subclasses.</p> <p>IgG1 along with IgG2 and IgG3 form the three major subclasses of bovine IgG. In bovids, IgG1 constitutes approximately 50% of serum immunoglobulin. IgG1. Unlike many other species, in ruminants and particularly bovids, IgG1 is major immunoglobulin present in milk and colostrum rather than IgA.</p> <p>In addition to clone K37 2G6, Bio-Rad offer clone IL-A60, which is also specific to bovine IgG1, along with a wide range of other antibodies specific to various bovine immunoglobulin and immunoglobulin subclasses.</p>
References	<ol style="list-style-type: none"> Estes. <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- 611 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. Soria, I. <i>et al.</i> (2018) Immune Response and Partial Protection against Heterologous Foot-and-Mouth Disease Virus Induced by Dendrimer Peptides in Cattle. J Immunol Res. 2018: 3497401. Salem, E. <i>et al.</i> (2019) Pathogenesis, Host Innate Immune Response, and Aerosol Transmission of Influenza D Virus in Cattle. J Virol. 93(7):e01853-18. Noble, A. <i>et al.</i> (2024) Development of bovine IgG3-specific assays using a novel recombinant single-domain binding reagent Veterinary Immunology and Immunopathology. : 110852. Gilbert, F.B. <i>et al.</i> (2024) Expression of FcγR by bovine mononuclear blood leukocytes. Dev Comp Immunol. : 105304.
Storage	<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>
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/MCA627GA>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
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 (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)

Recommended Negative Controls

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

Recommended Useful Reagents

[MOUSE ANTI BOVINE IgG1:HRP \(MCA2440P\)](#)
[MOUSE ANTI BOVINE IgG1 \(MCA2440GA\)](#)

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

'M382460:210513'

Printed on 19 Mar 2026