

Datasheet: MCA626GA

Description:	MOUSE ANTI BOVINE IgG2
Specificity:	IgG2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	K192 4F10
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
Species Cross Reactivity	Reacts with: Sheep N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
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 IgG
Fusion Partners	Spleen cells from immunised mice were fused with cells of the P3.X63.Ag8.653 myeloma cell line
Specificity	Mouse anti Bovine IgG2, clone K192 4F10, is a monoclonal antibody specific for bovine IgG2 (A1/A1 & A1/A2) and does not recognize other bovine immunoglobulin classes. Clone K192 4F10 has been shown recognise IgG2 in some, but not all, breeds of sheep. While normal serum levels of IgG1 are relatively constant in cattle at around 50%, IgG2 levels are highly variable between different strains and races.
ELISA	This product is suitable for use in direct ELISA applications
References	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. Immunology 95: 604- 611. 2. 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. J Parasitol. 87: 90-5. 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. Vet Res. 42: 46. 4. 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>. J Immunol. 174: 6702-15. 5. Arulkanthan, A. <i>et al.</i> (1999) Biased immunoglobulin G1 isotype responses induced in cattle with DNA expressing msp1a of <i>Anaplasma marginale</i>. Infect Immun. 67: 3481-7. 6. 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>. J Dairy Sci. 86: 2884-94. 7. French, D.M. <i>et al.</i> (1999) Emergence of <i>Anaplasma marginale</i> antigenic variants during persistent rickettsemia. Infect Immun. 67: 5834-40. 8. 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. Clin Vaccine Immunol. 17: 1881-90. 9. Kooyman, F.N. <i>et al.</i> (2007) Antibodies elicited by the bovine lungworm, <i>Dictyocaulus viviparus</i>, cross-react with platelet-activating factor. Infect Immun. 75: 4456-62. 10. 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. J Biol Chem. 276: 47794-800.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted.
Shelf Life	18 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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