

Datasheet: MCA1901GA

Description:	MOUSE ANTI HORSE IgGb
Specificity:	IgGb
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CVS39
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 - 1/50000
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	Horse
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 equine IgGb.
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse X63-Ag8.653

myeloma cell line.

Specificity	Mouse anti Horse IgGb antibody, clone CVS39 recognizes equine IgGb, recently classified as equine IgG4/7 (Keggan et al. 2013), and shows no significant binding to other IgG subclasses. Equine IgGb is an immunoglobulin with a molecular weight (MW) of approximately 160kDa, the MW of the light chain being 27kDa, common to all equine IgG subclasses, while the heavy chain has a MW of 53kDa, specific to IgGb (Sheoran et al. 1998). Equine IgGb has been demonstrated to be involved in long lasting immunity following respiratory-related viral infections such as Equine Herpes virus Type 4 (EHV-4) (Mizukoshi et al. 2002) and Equine Influenza (Soboll et al. 2003). In addition to Mouse anti Horse IgGb, clone CVS39, Bio-Rad also offer a range of other monoclonal and polyclonal antibodies that are specific to equine immunoglobulin classes and subclasses.
References	1. Sheoran, A.S. <i>et al.</i> (1998) Monoclonal antibodies to subclass-specific antigenic determinants on equine immunoglobulin gamma chains and their characterization. Vet Immunol Immunopathol. 62 (2): 153-65. 2. Lewis, M.J. <i>et al.</i> (2008) The different effector function capabilities of the seven equine IgG subclasses have implications for vaccine strategies. Mol Immunol. 45 (3): 818-27. 3. Keggan, A. <i>et al</i> (2013) Production of seven monoclonal equine immunoglobulins isotyped by multiplex analysis Vet Immunol Immunopathol. 153(3-4):187-93
Further Reading	1. Mizukoshi, F. <i>et al</i> (2002) IgG antibody subclass response against equine herpesvirus type 4 in horses. Vet Immunol Immunopathol. 88(1-2):97-101. 2. Soboll, G. <i>et al</i> (2003) Regional antibody and cellular immune responses to equine influenza virus infection, and particle mediated DNA vaccination. Vet Immunol Immunopathol. 94(1-2):47-62.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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 Useful Reagents

[PURIFIED HORSE IgG \(PEP001\)](#)

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

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