

Datasheet: MCA1901GA

BATCH NUMBER 163135

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	<p>Mouse anti Horse IgGb antibody, clone CVS39 recognizes equine IgGb, also known 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).</p> <p>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.</p>
References	<ol style="list-style-type: none"> 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 4. Palm, A.E. <i>et al.</i> (2016) Secretory immunoglobulin A and immunoglobulin G in horse saliva. Vet Immunol Immunopathol. 180: 59-65.
Further Reading	<ol style="list-style-type: none"> 1. Mizukoski, 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	<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/MCA1901GA

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
Rabbit Anti Mouse IgG (STAR13...)	HRP
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 (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Useful Reagents[PURIFIED HORSE IgG \(PEP001\)](#)

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

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