

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. *et al.* (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. *et al.* (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. *et al* (2013) Production of seven monoclonal equine immunoglobulins isotyped by multiplex analysis [Vet Immunol Immunopathol. 153\(3-4\):187-93](#)

Further Reading

1. Mizukoshi, F. *et al* (2002) IgG antibody subclass response against equine herpesvirus type 4 in horses. [Vet Immunol Immunopathol. 88\(1-2\):97-101.](#)
2. Soboll, G. *et al* (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.

Guarantee 12 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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

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

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

Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)

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

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

Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [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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