

Datasheet: MCA635GA

Description:	MOUSE ANTI PIG IgG1
Specificity:	IgG1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	K139 3C8
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		▪		
Immunohistology - Resin		▪		
ELISA	▪			1/50 - 1/5000
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	Pig
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A 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	Porcine IgG1.
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse P3-X63-Ag8.653 myeloma

cell line.

Specificity

Mouse anti Pig IgG1, clone K139 3C8 recognizes porcine IgG1 and no cross-reaction has been observed with porcine IgA, IgG2 or IgM.

IgG1, along with IgG2 (IgG2a and IgG2b), IgG3 and IgG4 comprise the major known subclasses of IgG in swine. Combined, the various subclasses of IgG comprise approximately 85% of immunoglobulin in porcine serum.

In addition to clone K139 3C8, a range of monoclonal antibodies recognizing other porcine IgG subclasses and immunoglobulins are [available](#).

References

1. Rivera, E. *et al.* (2003) Ginseng extract in aluminium hydroxide adjuvanted vaccines improves the antibody response of pigs to porcine parvovirus and *Erysipelothrix rhusiopathiae*. [Vet. Immunol. Immunopathol. 91: 19 - 27.](#)
2. Nejsum, P. *et al.* (2009) Population dynamics of *Trichuris suis* in trickle-infected pigs. [Parasitology. 136: 691-7.](#)
3. Tian, F. *et al.* (2010) Immune Events Associated with High Level Protection against *Schistosoma japonicum* Infection in Pigs Immunized with UV-Attenuated Cercariae. [PLoS One. 5\(10\): e13408.](#)
4. Bailey, M. *et al.* (2004) Effects of infection with transmissible gastroenteritis virus on concomitant immune responses to dietary and injected antigens. [Clin Diagn Lab Immunol. 11: 337-43.](#)
5. Lin, D. *et al.* (2011) Multiple vaccinations with UV- attenuated cercariae in pig enhance protective immunity against *Schistosoma japonicum* infection as compared to single vaccination. [Parasit Vectors. 4:103.](#)
6. Lefevre, EA. *et al.* (2012) Immune responses in pigs vaccinated with adjuvanted and non-adjuvanted A(H1N1)pdm/09 influenza vaccines used in human immunization programmes. [PLoS One. 7: e32400.](#)
7. Baums, C.G. *et al.* (2010) Immunogenicity of an autogenous *Streptococcus suis* bacterin in preparturient sows and their piglets in relation to protection after weaning. [Clin Vaccine Immunol. 17: 1589-97.](#)
8. Jayashi, C.M. *et al.* (2012) Characterisation of antibody responses in pigs induced by recombinant oncosphere antigens from *Taenia solium*. [Vaccine. pii: S0264-410X\(12\)01503-4.](#)
9. Rodríguez-Calvo, T. *et al.* (2010) New vaccine design based on defective genomes that combines features of attenuated and inactivated vaccines. [PLoS One. 5: e10414.](#)
10. Schmied, J. *et al.* (2012) Effect of Heat-Killed *Escherichia coli*, Lipopolysaccharide, and Muramyl Dipeptide Treatments on the Immune Response Phenotype and Allergy in Neonatal Pigs Sensitized to the Egg White Protein Ovomuroid. [Clin Vaccine Immunol. 19: 1955-64.](#)
11. Weber, T.E. and Spurlock, M.E. (2004) Leptin alters antibody isotype in the pig in vivo, but does not regulate cytokine expression or stimulate STAT3 signaling in peripheral blood monocytes in vitro. [J Anim Sci. 82: 1630-40.](#)
12. Pasternak JA *et al.* (2015) Oral antigen exposure in newborn piglets circumvents induction of oral tolerance in response to intraperitoneal vaccination in later life. [BMC Vet Res. 11 \(1\): 350.](#)
13. Blanco, E. *et al.* (2016) Full protection of swine against foot-and-mouth disease by a bivalent B-cell epitope dendrimer peptide. [Antiviral Res. Mar 5. pii: S0166-3542\(16\)30132-2. \[Epub ahead of print\]](#)
14. Williams, A.R. *et al.* (2017) Dietary cinnamaldehyde enhances acquisition of specific antibodies following helminth infection in pigs. [Vet Immunol Immunopathol. 189: 43-52.](#)
15. Williams, A.R. *et al.* (2017) A polyphenol-enriched diet and *Ascaris suum* infection modulate mucosal immune responses and gut microbiota composition in pigs. [PLoS One. 12 \(10\): e0186546.](#)

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 Negative Controls

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

Recommended Useful Reagents

[MOUSE ANTI PIG IgG2 \(MCA636GA\)](#)

[MOUSE ANTI PIG IgA \(MCA638GA\)](#)

North & South Tel: +1 800 265 7376

America 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

'M372740:200716'

Printed on 11 Aug 2020

© 2020 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)