

Datasheet: MCA635GA

BATCH NUMBER 1708

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 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	Porcine IgG1.
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse P3-X63-Ag8.653 myeloma cell line.
Specificity	<p>Mouse anti Pig IgG1, clone K139 3C8 recognizes porcine IgG1 and no cross-reaction has been observed with porcine IgA, IgG2 or IgM.</p> <p>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.</p> <p>In addition to clone K139 3C8, a range of monoclonal antibodies recognizing other porcine IgG subclasses and immunoglobulins are available.</p>
References	<ol style="list-style-type: none"> Rivera, E. <i>et al.</i> (2003) Ginseng extract in aluminium hydroxide adjuvanted vaccines improves the antibody response of pigs to porcine parvovirus and <i>Erysipelothrix rhusiopathiae</i>. Vet. Immunol. Immunopathol. 91; 19 - 27. Nejsum, P. <i>et al.</i> (2009) Population dynamics of <i>Trichuris suis</i> in trickle-infected pigs. Parasitology. 136: 691-7. Tian, F. <i>et al.</i> (2010) Immune Events Associated with High Level Protection against <i>Schistosoma japonicum</i> Infection in Pigs Immunized with UV-Attenuated Cercariae. PLoS One. 5(10): e13408. Bailey, M. <i>et al.</i> (2004) Effects of infection with transmissible gastroenteritis virus on concomitant immune responses to dietary and injected antigens. Clin Diagn Lab Immunol. 11: 337-43. Lin, D. <i>et al.</i> (2011) Multiple vaccinations with UV- attenuated cercariae in pig enhance protective immunity against <i>Schistosoma japonicum</i> infection as compared to single vaccination. Parasit Vectors. 4:103. Lefevre, EA. <i>et al.</i> (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. Baums, C.G. <i>et al.</i> (2010) Immunogenicity of an autogenous <i>Streptococcus suis</i> bacterin in preparturient sows and their piglets in relation to protection after weaning. Clin Vaccine Immunol. 17: 1589-97. Jayashi, C.M. <i>et al.</i> (2012) Characterisation of antibody responses in pigs induced by recombinant oncosphere antigens from <i>Taenia solium</i>. Vaccine. pii: S0264-410X(12)01503-4. Rodríguez-Calvo, T. <i>et al.</i> (2010) New vaccine design based on defective genomes that combines features of attenuated and inactivated vaccines. PLoS One. 5: e10414. Schmied, J. <i>et al.</i> (2012) Effect of Heat-Killed <i>Escherichia coli</i>, 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.](#)

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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: <https://www.bio-rad-antibodies.com/SDS/MCA635GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
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 (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Useful Reagents

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

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

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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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