

Datasheet: MCA636GA

Description:	MOUSE ANTI PIG IgG2
Specificity:	IgG2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	K68 Ig2
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	▪			1/1000 - 1/50,000
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 IgG2
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 IgG2, clone K68 Ig2 recognizes porcine IgG2 and shows no cross-reactivity with IgG1, IgA or IgM. IgG2 (IgG2a and IgG2b), along with IgG1, 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>Porcine IgG2 and Ifn-γ levels are significantly elevated in parasite infections by worm species such as <i>Schistosoma japonicum</i> (Tian, F. <i>et al.</i> 2010). Antibodies recognizing porcine immunoglobulins such as clone K68 Ig2 have potential use in porcine vaccine development assays (Rodríguez-Calvo <i>et al.</i> 2010).</p> <p>Clone K68 Ig2 forms part of a range of monoclonal antibodies specific for porcine immunoglobulins and immunoglobulin subclasses available from Bio-Rad.</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 (1): 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. 2010 Oct 15;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, E.A. <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 CG <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 (10): 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. 30 (52): 7475-80. 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.

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17. Cañas-Arranz, R. *et al.* (2020) A bivalent B-cell epitope dendrimer peptide can confer long-lasting immunity in swine against foot-and-mouth disease. [Transbound Emerg Dis. 67 \(4\): 1614-22.](#)

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Storage

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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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/MCA636GA>
10040

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 Negative Controls

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

Recommended Useful Reagents

[MOUSE ANTI PIG IgG1 \(MCA635GA\)](#)

[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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