

Datasheet: MCA6050GA

BATCH NUMBER 170700

Description:	MOUSE ANTI PIG SWC5
Specificity:	SWC5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	b37c10
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	▪			1/10 - 1/200
Immunohistology - Frozen			▪	
Immunoprecipitation			▪	

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 T cells
Specificity	<p>Mouse anti Pig SWC5 antibody, clone b37c10 recognizes the porcine SWC5 cell surface antigen. SWC5 has a molecular weight of 180 kDa and is expressed only on subset of γ/δ T cells.</p> <p>SWC5 and CD2 expression divides γ/δ T cells into three subpopulations: CD2-SWC5-, CD2-SWC5+ and CD2+SWC5- γ/δ T cells subsets. The vast majority of CD2-SWC5- and CD2-SWC5+ T cells are negative for CD8α and SLA-DR and positive for CD27. Only thymus and spleen has an extra CD2+SWC5+ population.</p>
References	<ol style="list-style-type: none"> Sedlak, C. <i>et al.</i> (2014) CD2 and CD8α define porcine γ/δ T cells with distinct cytokine production profiles. Dev Comp Immunol. 45 (1): 97-106. Schilloks, M.C. <i>et al.</i> (2023) Effects of GHR Deficiency and Juvenile Hypoglycemia on Immune Cells of a Porcine Model for Laron Syndrome. Biomolecules. 13 (4)Mar 26 [Epub ahead of print]. Giese, I.M. <i>et al.</i> (2020) Chronic Hyperglycemia Drives Functional Impairment of Lymphocytes in Diabetic INS(C94Y) Transgenic Pigs. Front Immunol. 11: 607473.
Further Reading	<ol style="list-style-type: none"> Binns, R.M. <i>et al.</i> (1992) Subsets of null and gamma delta T-cell receptor+ T lymphocytes in the blood of young pigs identified by specific monoclonal antibodies. Immunology. 77 (2): 219-27. Binns, R.M. (1994) The Null/gamma delta TCR+ T cell family in the pig. Vet Immunol Immunopathol. 43 (1-3): 69-77. Piriou-guzylack, L. & Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. Vet Res. 39 (6): 54.
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/MCA6050GA 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 \(MCA928\)](#)

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
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M381464:210512'

Printed on 23 May 2025

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)