

## Datasheet: MCA6050A647

<b>Description:</b>	MOUSE ANTI PIG SWC5:Alexa Fluor® 647
<b>Specificity:</b>	SWC5
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	b37c10
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

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 conjugated to Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN <sub>3</sub> )		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		
Immunogen	Porcine T cells		

<b>Specificity</b>	<p><b>Mouse anti Pig SWC5 antibody, clone b37c10</b> recognizes the porcine SWC5 cell surface antigen. SWC5 has a molecular weight of 180 kDa and is expressed only on subset of <math>\gamma/\delta</math> T cells.</p> <p>SWC5 and CD2 expression divides <math>\gamma/\delta</math> T cells into three subpopulations: CD2-SWC5-, CD2-SWC5+ and CD2+SWC5- <math>\gamma/\delta</math> T cells subsets. The vast majority of CD2-SWC5- and CD2-SWC5+ T cells are negative for CD8<math>\alpha</math> and SLA-DR and positive for CD27. Only thymus and spleen has an extra CD2+SWC5+ population.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Sedlak, C. <i>et al.</i> (2014) CD2 and CD8<math>\alpha</math> define porcine <math>\gamma/\delta</math> T cells with distinct cytokine production profiles. <a href="#">Dev Comp Immunol. 45 (1): 97-106.</a></li> <li>2. 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. <a href="#">Biomolecules. 13 (4)Mar 26 [Epub ahead of print].</a></li> <li>3. Giese, I.M. <i>et al.</i> (2020) Chronic Hyperglycemia Drives Functional Impairment of Lymphocytes in Diabetic INS(C94Y) Transgenic Pigs. <a href="#">Front Immunol. 11: 607473.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. 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. <a href="#">Immunology. 77 (2): 219-27.</a></li> <li>2. Binns, R.M. (1994) The Null/gamma delta TCR+ T cell family in the pig. <a href="#">Vet Immunol Immunopathol. 43 (1-3): 69-77.</a></li> <li>3. Piriou-guzylack, L. &amp; Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39 (6): 54.</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a></p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6050A647">https://www.bio-rad-antibodies.com/SDS/MCA6050A647</a></p> <p>10041</p>

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto: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](https://bio-rad-antibodies.com/datasheets)

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