

Datasheet: MCA6050A647

Description:	MOUSE ANTI PIG SWC5:Alexa Fluor® 647
Specificity:	SWC5
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	b37c10
Isotype:	IgG1
Quantity:	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.

	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 ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		
Immunogen	Porcine T cells		

Specificity **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.
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 CD8 α and SLA-DR and positive for CD27. Only thymus and spleen has an extra CD2+SWC5+ population.

References

1. Binns, R.M. *et al.* (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.](#)
2. Binns, R.M. (1994) The Null/gamma delta TCR+ T cell family in the pig. [Vet Immunol Immunopathol. 43 \(1-3\): 69-77.](#)
3. Sedlak, C. *et al.* (2014) CD2 and CD8 α define porcine γ/δ T cells with distinct cytokine production profiles. [Dev Comp Immunol. 45 \(1\): 97-106.](#)

Further Reading

1. Piriou-guzylack, L. & Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39 \(6\): 54.](#)

Storage Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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

Acknowledgements 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 outlicensing@thermofisher.com

Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

'M368657:200529'

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

Printed on 04 Jan 2021

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)