

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	<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 $\gamma\delta$ T cells. SWC5 and CD2 expression divides $\gamma\delta$ T cells into three subpopulations: CD2-SWC5-, CD2-SWC5+ and CD2+SWC5- $\gamma\delta$ 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</p>		

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 $\gamma\delta$ 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

18 months from date of despatch

Acknowledgements

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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 \(MCA928A647\)](#)

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