

## Datasheet: MCA6050PE

<b>Description:</b>	MOUSE ANTI PIG SWC5:RPE
<b>Specificity:</b>	SWC5
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	b37c10
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

### 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.

<b>Target Species</b>	Pig
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized
<b>Reconstitution</b>	Reconstitute with 1.0 ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
--------------------	---

<b>Buffer Solution</b>	Phosphate buffered saline
------------------------	---------------------------

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 5% Sucrose
---------------------------------	---

<b>Immunogen</b>	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  $\gamma/\delta$  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 CD8 $\alpha$  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 $\alpha$  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. DO NOT FREEZE.  
This product should be stored undiluted. This product is photosensitive and should be protected from light.

---

**Guarantee** 12 months from date of despatch

---

**Health And Safety Information** Material Safety Datasheet documentation #20487 available at: 20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

---

**Regulatory** For research purposes only

---

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

**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)

'M375633:210104'

Printed on 04 Jan 2021

---

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