

## Datasheet: MCA1219

**BATCH NUMBER 168715**

<b>Description:</b>	MOUSE ANTI PIG SWC8
<b>Specificity:</b>	SWC8
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MIL3
<b>Isotype:</b>	IgM
<b>Quantity:</b>	2 ml

## 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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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>	Tissue Culture Supernatant - liquid
<b>Preparation</b>	Tissue culture supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Porcine Lamina Propria Leucocytes.
<b>RRID</b>	AB_322076

<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the P3-X63-Ag.653 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Pig SWC8, clone MIL3</b>, recognizes the porcine SWC8 cell surface antigen, an antigen that as yet has no identified human homolog. SWC8 is expressed by granulocytes, B cells, a subset of T cells and by some non-haematopoietic cells. Monocytes however do not express SWC8.</p> <p>Clone MIL3 has been used in two colour flow cytometry with Mouse anti Porcine CD14 antibody, clone MIL2 (<a href="#">MCA1218GA</a>) to distinguish between monocytes and granulocytes (<a href="#">Haverson <i>et al.</i> 1994</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>Haverson, K. <i>et al.</i> (1994) Characterization of monoclonal antibodies specific for monocytes, macrophages and granulocytes from porcine peripheral blood and mucosal tissues. <a href="#">J Immunol Methods. 170 (2): 233-45.</a></li> <li>Summerfield, A. <i>et al.</i> (2001) Induction of apoptosis in bone marrow neutrophil-lineage cells by classical swine fever virus. <a href="#">J Gen Virol. 82 (Pt 6): 1309-18.</a></li> <li>Chen, L. <i>et al.</i> (2003) Macrophages and MHC class II positive dendritiform cells in the iris and choroid of the pig. <a href="#">Curr Eye Res. 26: 291-6.</a></li> <li>Summerfield, A. <i>et al.</i> (2003) Porcine peripheral blood dendritic cells and natural interferon-producing cells. <a href="#">Immunology. 110: 440-9.</a></li> <li>Barnard, A.L. <i>et al.</i> (2005) Immune response characteristics following emergency vaccination of pigs against foot-and-mouth disease. <a href="#">Vaccine. 23: 1037-47.</a></li> <li>Zelnickova, P. <i>et al.</i> (2008) Age-dependent changes of proinflammatory cytokine production by porcine peripheral blood phagocytes. <a href="#">Vet Immunol Immunopathol. 124: 367-78.</a></li> <li>Ondrackova, P. <i>et al.</i> (2010) Porcine mononuclear phagocyte subpopulations in the lung, blood and bone marrow: dynamics during inflammation induced by <i>Actinobacillus pleuropneumoniae</i>. <a href="#">Vet Res. 41: 64.</a></li> <li>LeLuduec, J.B. <i>et al.</i> (2016) Intradermal vaccination with un-adjuvanted sub-unit vaccines triggers skin innate immunity and confers protective respiratory immunity in domestic swine. <a href="#">Vaccine. 34 (7): 914-22.</a></li> <li>Teuben, M.P.J. <i>et al.</i> (2021) Standardized porcine unilateral femoral nailing is associated with changes in PMN activation status, rather than aberrant systemic PMN prevalence. <a href="#">Eur J Trauma Emerg Surg. Jun 10 [Epub ahead of print].</a></li> </ol>
<b>Further Reading</b>	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39: 54.</a>
<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>

**Guarantee** 12 months from date of despatch

---

**Health And Safety Information** Material Safety Datasheet documentation #10053 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1219>  
10053

---

**Regulatory** For research purposes only

---

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

**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)

'M418590:230427'

**Printed on 29 Aug 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)