

## Datasheet: MCA5974F

<b>Description:</b>	MOUSE ANTI PIG CD52:FITC
<b>Specificity:</b>	CD52
<b>Other names:</b>	SWC1
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	11/305/44
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.1 mg

## 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
Immunofluorescence			■	

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Porcine thymocytes		
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">H8ZRT6</a> <a href="#">Related reagents</a>		

<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the SP2/0-Ag14 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Pig CD52, clone 11/305/44</b> is a monoclonal antibody recognizing the porcine homologue of human CD52, a ~19 kDa antigen expressed by mature lymphocytes, monocytes and dendritic cells.</p> <p>Mouse anti Pig CD52, clone 11/305/44 was originally clustered at the 1st International Swine Cluster of Differentiation Workshop held in 1992 as SWC1 (<a href="#">Lunney et al. 1994</a>). SWC1 is the porcine orthologue to human CD52, expressed by most leucocytes including resting T-cells, monocytes and granulocytes, but is not expressed by B-cells, erythrocytes or platelets (<a href="#">Piriou-Guyzlack et al. 2008</a>) &amp; (<a href="#">Leitner et al. 2012</a>). Porcine CD52, expressed at very much higher levels on monocytes than mature macrophages, and SWC9, expressed exclusively on mature tissue macrophages, have been used as markers of monocyte-macrophage differentiation (<a href="#">Sanchez et al. 1999</a>) &amp; (<a href="#">McCullough et al. 1999</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Leitner, J. <i>et al.</i> (2012) Porcine SWC1 is CD52--final determination by the use of a retroviral cDNA expression library. <a href="#">Vet Immunol Immunopathol. 146 (1): 27-34.</a></li> <li>2. Lunney, J.K. <i>et al.</i> (1994) Overview of the First International Workshop to Define Swine Leukocyte Cluster of Differentiation (CD) Antigens. <a href="#">Vet Immunol Immunopathol. 43: 193-206.</a></li> <li>3. Seeboth, J. <i>et al.</i> (2012) The fungal T-2 toxin alters the activation of primary macrophages induced by TLR-agonists resulting in a decrease of the inflammatory response in the pig. <a href="#">Vet Res. 43: 35.</a></li> <li>4. Shao, L. <i>et al.</i> (2016) Tissue-specific mRNA expression profiles of porcine Toll-like receptors at different ages in germ-free and conventional pigs. <a href="#">Vet Immunol Immunopathol. 171: 7-16.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Piriou-Guyzlack, L. <i>et al.</i> (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39: 54</a></li> <li>2. Sánchez, C. <i>et al.</i> (1999) The Porcine 2A10 Antigen is Homologous to Human CD163 and Related to Macrophage Differentiation. <a href="#">J Immunol. 162: 5230-7.</a></li> <li>3. Mccullough, K.C. <i>et al.</i> (1999) Intermediate stages in monocyte-macrophage differentiation modulate phenotype and susceptibility to virus infection. <a href="#">Immunology. 98 (2): 203-12.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:FITC \(MCA691F\)](#)

## Recommended Useful Reagents

[MOUSE ANTI PIG CD203a \(MCA1973GA\)](#)

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