

Datasheet: MCA5974GA

Description:	MOUSE ANTI PIG CD52
Specificity:	CD52
Other names:	SWC1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	11/305/44
Isotype:	IgG2b
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/25 - 1/200
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.

Target Species	Pig
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Porcine thymocytes
External Database Links	UniProt: H8ZRT6 Related reagents
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the SP2/0-Ag14 myeloma cell line
Specificity	<p>Mouse anti Pig CD52, clone 11/305/44 recognizes 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 (Lunney <i>et al.</i> 1994). 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 (Piriou-Guyzlack <i>et al.</i> 2008) & (Leitner <i>et al.</i> 2012).</p> <p>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 (Sanchez <i>et al.</i> 1999) & (McCullough <i>et al.</i> 1999).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. Lunney, J.K. <i>et al.</i> (1994) Overview of the First International Workshop to Define Swine Leukocyte Cluster of Differentiation (CD) Antigens. Vet Immunol Immunopathol. 43: 193-206. 2. Leitner, J. <i>et al.</i> (2012) Porcine SWC1 is CD52--final determination by the use of a retroviral cDNA expression library. Vet Immunol Immunopathol. 146 (1): 27-34. 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. Vet Res. 43: 35. 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. Vet Immunol Immunopathol. 171: 7-16.
Further Reading	<ol style="list-style-type: none"> 1. Sánchez, C. <i>et al.</i> (1999) The Porcine 2A10 Antigen is Homologous to Human CD163 and Related to Macrophage Differentiation. J Immunol. 162: 5230-7. 2. Mccullough, K.C. <i>et al.</i> (1999) Intermediate stages in monocyte-macrophage differentiation modulate phenotype and susceptibility to virus infection. Immunology. 98 (2): 203-12.

3. Piriou-Guzylack, L. *et al.* (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54](#)

Storage 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5974GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR117...) [DyLight®405](#), [DyLight®488](#), [DyLight®800](#), [FITC](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

Recommended Useful Reagents

[MOUSE ANTI PIG CD203a:FITC \(MCA1973F\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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