

Datasheet: MCA5974F BATCH NUMBER 163393

Description:	MOUSE ANTI PIG CD52:FITC
Specificity:	CD52
Other names:	SWC1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	11/305/44
Isotype:	lgG2b
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	•			Neat - 1/10
Immunofluorescence			1	

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 conjugate	ed to Fluorescein Isoth	niocyanate Isomer
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nn
	FITC	490	525
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein A
Buffer Solution	Phosphate buffered sa	aline	
Preservative	0.09% Sodium Azide ((NaN ₃)	
Stabilisers			

Approx. Protein Concentrations	IgG concentration 0.1 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	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.	
	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 (<u>Lunney et al.1994</u>). 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 (<u>Piriou-Guyzlack et al. 2008</u>) & (<u>Leitner et al. 2012</u>).	
	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 et al. 1999) & (McCollough et al. 1999).	
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul	
References	 Lunney, J.K. et al. (1994) Overview of the First International Workshop to Define Swine Leukocyte Cluster of Differentiation (CD) Antigens. Vet Immunol Immunopathol. 43: 193-206. Leitner, J. et al. (2012) Porcine SWC1 is CD52final determination by the use of a retroviral cDNA expression library. Vet Immunol Immunopathol. 146 (1): 27-34. Seeboth, J. et al. (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. Shao, L. et al. (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	 Sánchez, C. <i>et al.</i> (1999) The Porcine 2A10 Antigen is Homologous to Human CD163 and Related to Macrophage Differentiation. <u>J Immunol. 162: 5230-7.</u> Mccullough, K.C. <i>et al.</i> (1999) Intermediate stages in monocyte-macrophage differentiation modulate phenotype and susceptibility to virus infection. <u>Immunology. 98</u> (2): 203-12. Piriou-Guzylack, L. <i>et al.</i> (2008) Membrane markers of the immune cells in swine: an undate. <i>Vet Boo.</i> 20: 54. 	

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. 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 #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA5974F 10041			
Regulatory	For research purposes only			

Related Products

America

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL:FITC (MCA691F)

Recommended Useful Reagents

MOUSE ANTI PIG CD203a (MCA1973GA)

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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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