

Datasheet: MCA5973F BATCH NUMBER 162164

Description:	MOUSE ANTI PIG CD27:FITC
Specificity:	CD27
Other names:	SWC2
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	B30C7
Isotype:	lgG1
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			•	

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 conjugated to Fluorescein Isoth	iocyanate Isomer 1
Max Ex/Em Fluorophore Excitation Max (nm)	Emission Max (nm
FITC 490	525
Preparation Purified IgG prepared by affinity chromatogr supernatant	aphy on Protein A
Buffer Solution Phosphate buffered saline	
Preservative 0.09% Sodium Azide (NaN ₃)	
Stabilisers 1% Bovine Serum Albumin	

IgG concentration 0.1 mg/ml		
Porcine peripheral blood monocytes.		
UniProt: F1SL30 Related reagents		
Spleen cells from immunized Balb/c mice were fused with cells of the SP2/0-Ag14 myeloma cell line		
Mouse anti Pig CD27 antibody, clone B30C7 recognizes the porcine homologue of human CD27, previously known as Swine Workshop Cluster 2 (SWC2), a T-cell co-stimulatory molecule belonging to the TNF receptor family. In humans the CD27 antigen is expressed by discrete populations of T- and B-cells where it functions in a co-stimulatory role to induce proliferation of T-cells and B-cells, however, using the B30C7 clone, expression of CD27 on porcine B-cells appears undetectable (Reutner et al. 2012).		
Porcine CD27 is expressed by all naïve CD8a ^{-ve} T-helper cells and a sub-population of CD8a ^{+ve} cells (Reutner et al. 2012). Monoclonal antibodies to CD27 have previously been used to differentiate between		
subsets of NK cells and clone B30C7 may be used to differentiate between subsets of pig NK cells (Mair et al. 2013).		
Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul		
 Reutner, K. <i>et al.</i> (2012) Porcine CD27: identification, expression and functional aspects in lymphocyte subsets in swine. Dev Comp Immunol. 38: 321-31. Reutner, K. <i>et al.</i> (2013) CD27 expression discriminates porcine T helper cells with functionally distinct properties. Vet Res. 44: 18. Mair, K.H. <i>et al.</i> (2013) Porcine CD8αdim/-NKp46high NK cells are in a highly activated state. Vet Res. 44: 13. Franzoni, G. <i>et al.</i> (2013) Assessment of the Phenotype and Functionality of Porcine CD8 T Cell Responses following Vaccination with Live Attenuated Classical Swine Fever Virus (CSFV) and Virulent CSFV Challenge. Clin Vaccine Immunol. 20: 1604-16. López, E. <i>et al.</i> (2019) Identification of very early inflammatory markers in a porcine myocardial infarction model. BMC Vet Res. 15 (1): 91. Maciag, S.S. <i>et al.</i> (2022) The influence of source of porcine colostrum in development of early immune ontogeny in the piglet Res Sq. Mar 24 [Epub ahead of print]. 		

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/MCA5973F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M384685:210513'

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