

Datasheet: MCA2315F BATCH NUMBER 154024

Description:	MOUSE ANTI PIG CD107a:FITC		
Specificity:	CD107a		
Other names:	LAMP-1		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	4E9/11		
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 <u>www.bio-</u>				
	rad-antibodies.com/protocols.				

	Yes	No	Not Determined	Suggested Dilution	
Flow Cytometry (1)	•			Neat	
Where this antibody has not been tested for use in a particular technique this does not					
necessarily exclude its use in such procedures. It is recommended that the user titrates					
the antibody for use in their own system using appropriate negative/positive controls.					
(1) Membrane permeabilisation is required for this application. Bio-Rad					
recommends the use of Leucoperm™ (Product Code <u>BUF09</u>) for this purpose.					

Target Species	Pig			
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid			
Max Ex/Em	Fluorophore FITC	Excitation Max (nm) 490	Emission Max (nm) 525	-
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 1% Bovine Serum /	Albumin		

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml				
Immunogen	Porcine alveolar macrophages.				
RRID	AB_566439				
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63-Ag.8.653 myeloma cell line.				
Specificity	Mouse anti Pig CD107a, clone 4E9/11 recognizes porcine CD107a, a cell surface antigen, also known as lysosomal-associated membrane protein-1 or LAMP-1.				
	CD107a is a type 1 single pass transmembrane glycoprotein expressed on macrophages and more weakly on monocytes and granulocytes.				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.				
References	 Bullido, R. <i>et al.</i> (1997) Monoclonal antibodies specific for porcine monocytes/macrophages: macrophage heterogeneity in the pig evidenced by the expression of surface antigens. <u>Tissue Antigens. 49 (4): 403-13.</u> Carrillo, A. <i>et al.</i> (2002) Isolation and characterization of immortalized porcine aortic endothelial cell lines. <u>Vet Immunol Immunopathol. 89 (1-2): 91-8.</u> Domenech, N. <i>et al.</i> (2003) Identification of porcine macrophages with monoclonal antibodies in formalin-fixed, paraffin-embedded tissues. <u>Vet Immunol Immunopathol. 94 (1-2): 77-81.</u> Sánchez-Torres, C. <i>et al.</i> (2003) Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. Arch Virol. <u>148 (12): 2307-23.</u> Toka, F.N. <i>et al.</i> (2009) Natural killer cell dysfunction during acute infection with foot-and-mouth disease virus. <u>Clin Vaccine Immunol. 16: 1738-49.</u> Bullers, S.J. <i>et al.</i> (2014) The human tissue-biomaterial interface: a role for PPARγ- dependent glucocorticoid receptor activation in regulating the CD163+ M2 macrophage phenotype. <u>Tissue Eng Part A. 20: 2390-401.</u> Mair, K.H. <i>et al.</i> (2013) Alphacoronavirus Protein 7 Modulates Host Innate Immune Response <u>J Virol. 87: 9754-67.</u> van Hout, G.P. <i>et al.</i> (2015) Invasive surgery reduces infarct size and preserves cardiac function in a porcine model of myocardial infarction. <u>J Cell Mol Med. 19 (11): 2655-63.</u> Toka, F.N. <i>et al.</i> (2018) Dose-Dependent Cardioprotection of Moderate (32°C) Versus Mild (35°C) Therapeutic Hypothermia in Porcine Acute Myocardial Infarction. <u>JACC Cardiovasc Interv. 11 (2): 195-205.</u> Talker, S.C. <i>et al.</i> (2015) Magnitude and kinetics of multifunctional CD4+ and CD8β+ T cells in pigs infected with swine influenza A virus. <u>Vet Res. 46: 52.</u> 				

Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update <u>Vet Res. 39: 54.</u>).
Storage	Store at +4°C or at -20°C if preferred.	
	This product should be stored undiluted.	
	Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.	
	Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.	
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/MCA2315F 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
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: 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 'M366635:200529'

Printed on 22 Feb 2024

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