

Datasheet: MCA2315A647 BATCH NUMBER 148404

MOUSE ANTI PIG CD107a:Alexa Fluor® 647
CD107a
LAMP-1
ALEXA FLUOR® 647
Monoclonal Antibody
4E9/11
lgG1
100 TESTS/1ml

Product Details

ApplicationsThis 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)				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 conjugate			
Max Ex/Em	Fluorophore Alexa Fluor®647	Excitation Max (nm) 650	Emission Max (nm) 665)
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 0.05mg/ml
Immunogen	Porcine alveolar macrophages.
RRID	AB_808377
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</u> (<u>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. <u>Arch Virol. 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 PPARy- 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) Porcine CD8αdim/-NKp46high NK cells are in a highly activated state. <u>Vet Res. 44: 13.</u> Cruz, J.L. <i>et al.</i> (2013) Alphacoronavirus Protein 7 Modulates Host Innate Immune Response J.Virol. 87: 9754-67. van Hout, G.P. <i>et al.</i> (2019) 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 F	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.					
Guarante	90	12 months from date of despatch					
Acknowl	edgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com					
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Regulato	ory						
Recomr		ets gative Controls /E CONTROL:Alexa Fluor	® 647 (MCA928A647)				
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To find a b	oatch/lot speci	fic datasheet for this prod	uct, please use our online s	earch tool at: b	io-rad-antibodies.com/datasheets		

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