

Datasheet: MCA2308F

Description:	MOUSE ANTI PIG CD11a:FITC
Specificity:	CD11a
Other names:	INTEGRIN ALPHA L CHAIN, LFA-1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	BL1H8
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	▪			Neat

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

Species Cross Reactivity

Reacts with: Sheep, Bovine

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Porcine alveolar macrophages.
RRID	AB_2129116
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
Specificity	<p>Mouse anti Pig CD11a, clone BL1H8 recognizes porcine CD11a, binding to a conformational epitope on the alpha chain of LFA-1 (CD11a/CD18), expressed on a range of cells including peripheral blood lymphocytes, monocytes, granulocytes and alveolar macrophages. Clone BL1H8 immunoprecipitates two bands of 170 kDa (CD11a) and 95 kDa (CD18) from porcine alveolar lysates, pre-clearance of the lysates completely removed the 170 kDa band, strongly suggesting the epitope for this antibody is located on the CD11a chain, although some involvement of residues on the LFA-1 β chain could not be formally ruled out (Alvarez et al. 2000). Mouse anti Pig CD11a, clone BL1H8 was clustered as porcine CD11a at the Third International Workshop on Swine Leukocyte Differentiation Antigens (Haverson et al. 2001).</p> <p>Mouse anti pig CD11a, clone BL1H8 is reported to inhibit Con-A driven T-cell proliferation and the mixed lymphocyte reaction (Alvarez et al. 2000).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> Alvarez, B. <i>et al.</i> (2000) Molecular and functional characterization of porcine LFA-1 using monoclonal antibodies to CD11a and CD18. Xenotransplantation. 7 (4): 258-66. Sánchez, C. <i>et al.</i> (1999) The porcine 2A10 antigen is homologous to human CD163 and related to macrophage differentiation. J Immunol. 162 (9): 5230-7. Van de Walle, G.R. <i>et al.</i> (2003) Transmission of pseudorabies virus from immune-masked blood monocytes to endothelial cells. J Gen Virol. 84 (Pt 3): 629-37. Vanden Bergh, P.G. <i>et al.</i> (2009) Porcine CD18 mediates <i>Actinobacillus pleuropneumoniae</i> ApxIII species-specific toxicity. Vet Res. 40: 1-10. Kyrova K <i>et al.</i> (2014) The response of porcine monocyte derived macrophages and dendritic cells to <i>Salmonella typhimurium</i> and lipopolysaccharide. BMC Vet Res. 10: 244. Wang, Y. <i>et al.</i> (2019) Luteolin Partially Inhibits LFA-1 Expression in Neutrophils Through the ERK Pathway. Inflammation. 42 (1): 365-74.
Further Reading	<ol style="list-style-type: none"> Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. Vet Res. 39: 54. Gerner W <i>et al.</i> (2015) Phenotypic and functional differentiation of porcine αβ T cells: current knowledge and available tools. Mol Immunol. 66 (1): 3-13.
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
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:FITC \(MCA691F\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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](https://www.bio-rad-antibodies.com/datasheets)
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