

## Datasheet: MCA2316F

<b>Description:</b>	MOUSE ANTI PIG CD169:FITC
<b>Specificity:</b>	CD169
<b>Other names:</b>	SIALOADHESIN
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3B11/11
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			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.

<b>Target Species</b>	Pig		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Porcine alveolar macrophages.		
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">A7LCJ3</a> <a href="#">Related reagents</a>		
	<b>Entrez Gene:</b>		

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<b>Synonyms</b>	SA, SN
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<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63-Ag.8.653 myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Pig CD169, clone 3B11/11</b> Is specific for porcine CD169, also known as sialoadhesin or Siglec-1, a member of the sialic acid binding immunoglobulin-like lectin (Siglec) family. CD169 was originally identified in mice and identified as the sialic acid dependent Sheep erythrocyte receptor (<a href="#">Crocker et al.1986</a>). CD169 has subsequently been identified in rat (<a href="#">van den Berg et al. 1992</a>), human (<a href="#">Mucklow et al. 1995</a>) and pig (<a href="#">Vanderheiiden et al. 2003</a>) .</p> <p>Mouse anti Porcine CD169, clone 3B1/11 was originally raised as part of a panel of anti porcine macrophage monoclonal antibodies raised against isolated porcine alveolar macrophages (<a href="#">Bullido et al. 1997</a>). Immunohistochemical analysis indicated restriction to macrophage populations mainly in the spleen, lymph nodes, liver and Peyer's patches.</p> <p>Originally described as a non phagocytic intercellular adhesion receptor, work on porcine CD169 indicated that it may play a role as a viral adhesion receptor (<a href="#">Delputte et al. 2006</a>) and as a targeted receptor for the delivery of toxins and antigens (<a href="#">Delputte et al. 2011</a>) .</p> <p>Mouse anti pig CD169, clone 3B11/11 detects a band of approximately 190 kDa in alveolar macrophage extracts under non-reducing conditions (<a href="#">Revilla et al 2009</a>).</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to 1x10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Thacker, E. <i>et al.</i> (2001) Summary of workshop findings for porcine myelomonocytic markers. <a href="#">Vet Immunol Immunopathol. 80 (1-2): 93-109.</a></li><li>2. Prather, R.S. <i>et al.</i> (2013) An Intact Sialoadhesin (Sn/SIGLEC1/CD169) Is Not Required for Attachment/Internalization of the Porcine Reproductive and Respiratory Syndrome Virus. <a href="#">J Virol. 87: 9538-46.</a></li><li>3. Revilla, C. <i>et al.</i> (2009) Targeting to porcine sialoadhesin receptor improves antigen presentation to T cells. <a href="#">Vet Res. 40 (3): 14.</a></li><li>4. Rodríguez-Gómez IM <i>et al.</i> (2015) PRRSV-infected monocyte-derived dendritic cells express high levels of SLA-DR and CD80/86 but do not stimulate PRRSV-naïve regulatory T cells to proliferate. <a href="#">Vet Res. 46: 54.</a></li><li>5. Costa-Hurtado, M. <i>et al.</i> (2013) Changes in macrophage phenotype after infection of pigs with <i>Haemophilus parasuis</i> strains with different levels of virulence. <a href="#">Infect Immun. 81 (7): 2327-33.</a></li><li>6. Perdiguero, B. <i>et al.</i> (2008) Vaccinia virus A34 glycoprotein determines the protein composition of the extracellular virus envelope. <a href="#">J Virol. 82 (5): 2150-60.</a></li><li>7. Perdiguero, B. &amp; Blasco, R. (2006) Interaction between vaccinia virus extracellular virus envelope A33 and B5 glycoproteins. <a href="#">J Virol. 80 (17): 8763-77.</a></li><li>8. Burkard, C. <i>et al.</i> (2017) Precision engineering for PRRSV resistance in pigs: Macrophages from genome edited pigs lacking CD163 SRCR5 domain are fully resistant to both PRRSV genotypes while maintaining biological function. <a href="#">PLoS Pathog. 13 (2): e1006206.</a></li><li>9. Whitworth, K.M. <i>et al.</i> (2016) Gene-edited pigs are protected from porcine reproductive and respiratory syndrome virus. <a href="#">Nat Biotechnol. 34 (1): 20-2.</a></li><li>10. Wells KD <i>et al.</i> (2017) Replacement of Porcine CD163 Scavenger Receptor Cysteine-Rich Domain 5 with a CD163-Like Homolog Confers Resistance of Pigs to Genotype 1 but Not Genotype 2 Porcine Reproductive and Respiratory Syndrome Virus. <a href="#">J Virol. 91 (2): pii: e01521-16.</a></li><li>11. Ezquerro, A. <i>et al.</i> (2009) Porcine myelomonocytic markers and cell populations. <a href="#">Dev Comp</a></li></ol>
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[Immunol. 33 \(3\): 284-98.](#)

12. Singleton, H. *et al.* (2016) Establishing Porcine Monocyte-Derived Macrophage and Dendritic Cell Systems for Studying the Interaction with PRRSV-1. [Front Microbiol. 7: 832.](#)

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**Further Reading** 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

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**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.

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**Shelf Life** 18 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 IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

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