

Datasheet: MCA6168A647

**BATCH NUMBER 163339**

<b>Description:</b>	MOUSE ANTI PIG SIGLEC-5:Alexa Fluor® 647
<b>Specificity:</b>	SIGLEC-5
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4F7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## 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 - 1/10

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.

<b>Target Species</b>	Pig		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<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 (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		

<b>Immunogen</b>	Recombinant protein consisting of the extracellular portion of porcine Siglec-5 fused to the Fc portion of human IgG1 (pSiglec- 5-Fc)
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">F1RP86</a> <a href="#">Related reagents</a>
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mouse were fused with cells of SP2/0 murine plasmacytoma
<b>Specificity</b>	<p><b>Mouse anti Pig siglec-5, clone 4F7</b> recognizes siglec-5 also known as CD170.</p> <p>Sialic-acid-binding immunoglobulin-like lectin (siglecs) are cell surface receptors belonging to the immunoglobulin superfamily and recognize terminal sialic acids present in complex oligosaccharides of glycoproteins or glycolipids. Siglecs are mainly expressed on the cells of the immune systems and play a regulatory role, modulating inflammatory and immune responses. Siglec-5 is expressed on myeloid cells, neutrophils, monocytes, macrophages, blood eosinophils, and at low levels on plasmacytoid dendric cells.</p> <p>Mouse anti Pig Siglec-5 antibody, clone 4F7 has been successfully used to analyze siglec-5 expression in bone marrow and blood cells, and lymphoid tissues. Siglec-5 was found to be expressed on monocytes (CD172a<sup>+</sup>, CD16<sup>hi</sup>), with weak expression on B cells (CD79a<sup>+</sup>) and plasmacytoid DCs (PDCs). No expression was found on T cells or NK cells (<a href="#">Escalona et al 2013</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>Escalona, Z. <i>et al.</i> (2014) Molecular characterization and expression of porcine Siglec-5. <a href="#">Dev Comp Immunol. 44 (1): 206-16.</a></li> <li>Chamorro, S. <i>et al.</i> (2005) Phenotypic and functional heterogeneity of porcine blood monocytes and its relation with maturation. <a href="#">Immunology. 114 (1): 63-71.</a></li> <li>Álvarez-Estrada, Á. <i>et al.</i> (2019) TLR2, Siglec-3 and CD163 expressions on porcine peripheral blood monocytes are increased during sepsis caused by Haemophilus parasuis. <a href="#">Comp Immunol Microbiol Infect Dis. 64: 31-39.</a></li> <li>Poderoso, T. <i>et al.</i> (2020) Expression of Siglec-1, -3, -5 and -10 in porcine cDC1 and cDC2 subsets from blood, spleen and lymph nodes and functional capabilities of these cells. <a href="#">Dev Comp Immunol. 109: 103692.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product is provided under an intellectual property licence from Life Technologies

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6168A647>  
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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

**North & South America**      Tel: +1 800 265 7376  
Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto:antibody_sales_uk@bio-rad.com)

**Europe**                              Tel: +49 (0) 89 8090 95 21  
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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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