

Datasheet: MCA6168A647

BATCH NUMBER 173977

Description:	MOUSE ANTI PIG SIGLEC-5:Alexa Fluor® 647
Specificity:	SIGLEC-5
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	4F7
Isotype:	IgG1
Quantity:	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.

	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.

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

Immunogen	Recombinant protein consisting of the extracellular portion of porcine Siglec-5 fused to the Fc portion of human IgG1 (pSiglec- 5-Fc)
External Database Links	UniProt: F1RP86 Related reagents
RRID	AB_2943342
Fusion Partners	Spleen cells from immunized BALB/c mouse were fused with cells of SP2/0 murine plasmacytoma
Specificity	Mouse anti Pig siglec-5, clone 4F7 recognizes siglec-5 also known as CD170. 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 dendritic cells. 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⁺, CD16^{hi}), with weak expression on B cells (CD79a⁺) and plasmacytoid DCs (PDCs). No expression was found on T cells or NK cells (Escalona <i>et al</i> 2013).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	1. 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 <i>Haemophilus parasuis</i>. Comp Immunol Microbiol Infect Dis. 64: 31-39. 2. 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. Dev Comp Immunol. 109: 103692. 3. Álvarez, B. <i>et al.</i> (2023) Porcine Macrophage Markers and Populations: An Update. Cells.12 (16): 2103.
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.
Guarantee	12 months from date of despatch
Acknowledgements	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 \(MCA928A647\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M421971:230819'

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