

Datasheet: MCA6167F

BATCH NUMBER 165437

Description:	MOUSE ANTI PIG CD33:FITC
Specificity:	CD33
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	5D5
Isotype:	IgG1
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 - 1/5

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 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 A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

Immunogen	Recombinant protein consisting in the two extracellular Ig-like domains of porcine Siglec-3 fused to the Fc portion of human IgG1 (pSiglec- 3-Fc)
Specificity	<p>Mouse anti Pig CD33, clone 5D5 recognizes CD33, also known as Siglec-3.</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.</p> <p>Clone 5D5 was used to detect Siglec-3 expression on monocytes (CD172a⁺ or CD16^{hi} PBMCs), granulocytes (CD52⁺ and CD52⁻), and bone marrow. CD33 was also detected in lymph node, splenic, and alveolar macrophages, although at lower levels than on monocytes (Alvarez et al. 2015).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> Bohorquez, J.A. <i>et al.</i> (2019) Identification of an Immunosuppressive Cell Population during Classical Swine Fever Virus Infection and Its Role in Viral Persistence in the Host. Viruses. 11 (9): 822. 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. 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. Álvarez, B. <i>et al.</i> (2023) Porcine Macrophage Markers and Populations: An Update. Cells. 12 (16): 2103.
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6167F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

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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

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Printed on 01 Feb 2024

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