

Datasheet: MCA6169F

BATCH NUMBER 163341

Description:	MOUSE ANTI PIG SIGLEC-10:FITC
Specificity:	SIGLEC-10
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	2E9
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	▪			1/25 - 1/50

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	NIH/3T3 mouse cells transfected with plasmid pSiglec-10-GFP, encoding the porcine Siglec-10 tagged with the green fluorescent protein (GFP) on the carboxy-terminal end
Specificity	<p>Mouse anti Pig Siglec-10, clone 2E9 recognizes Siglec-10.</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. When expressed on transfected cells, porcine Siglec-10 is able to bind red blood cells in a sialic acid-dependent manner.</p> <p>Mouse anti Pig Siglec-10 antibody, clone 2E9 has been successfully used to examine Siglec-10 cell and tissue distribution in swine. Siglec-10 was found to be expressed on blood B cells (CD21⁺ or CD79a⁺) and in B cell areas of the spleen and lymph nodes. Weak expression was also detected on monocytes (Escalona et al. 2014).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 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> (2019) Analysis of the expression of porcine CD200R1 and CD200R1L by using newly developed monoclonal antibodies. Dev Comp Immunol. 100: 103417. 3. 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. 4. 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/MCA6169F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

North & South Tel: +1 800 265 7376

America 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

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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