

Datasheet: MCA6100F

Description:	MOUSE ANTI PIG MONOCYTE/GRANULOCYTE:FITC
Specificity:	MONOCYTE/GRANULOCYTE
Other names:	CD172a, SWC3a
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	74-22-15
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

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 combination of precipitation and chromatography techniques		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)		
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml		
Immunogen	Fresh dd miniature swine thymocytes		

Specificity	Mouse anti Pig Monocyte/Granulocyte antibody, clone 74-22-15 , recognizes 90% of pig monocytes and granulocytes, in addition to 5% of lymphocytes, in peripheral blood. The target of Mouse anti Pig Monocyte/Granulocyte antibody, clone 74-22-15 is CD172a, similarly to clone BL1H7 (Haverson et al. 1994 , Blecha et al. 1994). CD172a/SWC3a is expressed on monocytes, dendritic cells, and granulocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. Labarque, G.G. <i>et al.</i> (2000) Effect of cellular changes and onset of humoral immunity on the replication of porcine reproductive and respiratory syndrome virus in the lungs of pigs. J Gen Virol. 81 (Pt 5): 1327-34. 2. Blecha, F. <i>et al.</i> (1994) Workshop studies on monoclonal antibodies reactive against porcine myeloid cells. Vet Immunol Immunopathol. 43 (1-3): 269-72. 3. Jarosz, I. <i>et al.</i> (2021) The Effect of Feed Supplementation with EM Bokashi® Multimicrobial Probiotic Preparation on Selected Parameters of Sow Colostrum and Milk as Indicators of the Specific and Nonspecific Immune Response. Probiotics Antimicrob Proteins. Oct 01 [Epub ahead of print]. 4. Sedaghat-Rostami, E. <i>et al.</i> (2025) Porcine respiratory coronavirus as a model for acute respiratory disease: mechanisms of different infection outcomes. J Immunol. Apr 30 [Epub ahead of print].
Storage	<p>This product is shipped at ambient temperature.</p> <p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6100F
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

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

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
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