

Datasheet: MCA6100PE

BATCH NUMBER 172635

Description:	MOUSE ANTI PIG MONOCYTE/GRANULOCYTE:RPE
Specificity:	MONOCYTE/GRANULOCYTE
Other names:	CD172a, SWC3a
Format:	RPE
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 - 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 R. Phycoerythrin (RPE) - liquid									
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> <tr> <td>RPE 561nm laser</td> <td>546</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578	RPE 561nm laser	546	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)								
RPE 488nm laser	496	578								
RPE 561nm laser	546	578								
Preparation	Purified IgG prepared by combination of precipitation and chromatography techniques									
Buffer Solution	Phosphate buffered saline									
Preservative	<0.1% Sodium Azide (NaN ₃)									
Stabilisers	Stabilizing agent (sucrose)									
Approx. Protein	IgG concentration 0.1 mg/ml									

Concentrations

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 1×10^6 cells in 100ul

References

1. Labarque, G.G. *et al.* (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. *et al.* (1994) Workshop studies on monoclonal antibodies reactive against porcine myeloid cells. [Vet Immunol Immunopathol. 43 \(1-3\): 269-72.](#)
3. Jarosz, ł. *et al.* (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. *et al.* (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 This product is shipped at ambient temperature.
Store at +4°C. DO NOT FREEZE.
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.

Guarantee Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

Health And Safety Information Material Safety Datasheet documentation #10045 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6100PE>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[MOUSE ANTI PIG CD14:FITC \(MCA1218F\)](#)

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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