

Datasheet: MCA2600A647

BATCH NUMBER 167647

Description:	MOUSE ANTI PIG GRANULOCYTES:Alexa Fluor® 647
Specificity:	GRANULOCYTES
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	2B2
Isotype:	IgG1
Quantity:	100 TESTS

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 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	Porcine bone marrow hematopoietic cells (BMHC)
Fusion Partners	Spleen cells from immunized Balb/c mouse were fused with cells of the Sp2/0 mouse myeloma cell line
Specificity	<p>Mouse anti Pig granulocytes antibody, clone 2B2 recognizes porcine basophils, neutrophils and eosinophils, acting as a reliable tool for their analysis and isolation, without contamination from other cells.</p> <p>Analysis of porcine bone marrow and blood shows that the antigen recognized by clone 2B2 is selectively expressed on mature cells and that it is likely to be a labile conformational epitope. Use of clone 2B2 in conjunction with clone 6D10 product code (MCA2599GA), allows for the discrimination and characterization of different porcine granulocyte lineages and also their developmental stages: 6D10⁻2B2⁻ early myeloid precursors, 6D10⁺2B2⁻ immature neutrophils, 6D10⁺2B2⁺ mature neutrophils and 6D10⁻2B2⁺ mature eosinophils and basophils. Clone 2B2 has been shown as suitable for use on cytopins (Pérez et al. 2007).</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. Nguyen, D.N. <i>et al.</i> (2016) Delayed development of systemic immunity in preterm pigs as a model for preterm infants. Sci Rep. 6: 36816. 2. LeLuduec, J.B. <i>et al.</i> (2016) Intradermal vaccination with un-adjuvanted sub-unit vaccines triggers skin innate immunity and confers protective respiratory immunity in domestic swine. Vaccine. 34 (7): 914-22. 3. Andersen, A.D. <i>et al.</i> (2019) Synbiotics Combined with Glutamine Stimulate Brain Development and the Immune System in Preterm Pigs. J Nutr. 149 (1): 36-45.
Further Reading	<ol style="list-style-type: none"> 1. Pérez, C. <i>et al.</i> (2007) Phenotypic and functional characterization of porcine granulocyte developmental stages using two new markers. Dev Comp Immunol. 31 (3): 296-306. 2. Piriou-guzylack, L. & Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. Vet Res. 39 (6): 54.
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. This product is photosensitive and should be protected from light.</p>
Guarantee	12 months from date of despatch
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a)

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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2600A647 10041
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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 \(MCA928A647\)](#)

Recommended Useful Reagents

[MOUSE ANTI PIG CD172a:FITC \(MCA2312F\)](#)

North & South America	Tel: +1 800 265 7376 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
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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
'M426516:240123'

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