

## Datasheet: MCA2600A647

<b>Description:</b>	MOUSE ANTI PIG GRANULOCYTES:Alexa Fluor® 647
<b>Specificity:</b>	GRANULOCYTES
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2B2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Pig		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	Porcine bone marrow hematopoietic cells (BMHC)		
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mouse were fused with cells of the Sp2/0 mouse myeloma cell line		
<b>Specificity</b>	<b>Mouse anti Pig granulocytes antibody, clone 2B2</b> recognizes porcine basophils, neutrophils and eosinophils, acting as a reliable tool for their analysis and isolation, without contamination from		

other cells.

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<sup>-</sup>2B2<sup>-</sup> early myeloid precursors, 6D10<sup>+</sup>2B2<sup>-</sup> immature neutrophils, 6D10<sup>+</sup>2B2<sup>+</sup> mature neutrophils and 6D10<sup>-</sup>2B2<sup>+</sup> mature eosinophils and basophils. Clone 2B2 has been shown as suitable for use on cytopins ([Perez et al. 2007](#)).

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul

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**References**

1. Pérez, C. *et al.* (2007) Phenotypic and functional characterization of porcine granulocyte developmental stages using two new markers. [Dev Comp Immunol. 31 \(3\): 296-306.](#)
2. Nguyen, D.N. *et al.* (2016) Delayed development of systemic immunity in preterm pigs as a model for preterm infants. [Sci Rep. 6: 36816.](#)
3. Andersen, A.D. *et al.* (2019) Synbiotics Combined with Glutamine Stimulate Brain Development and the Immune System in Preterm Pigs. [J Nutr. 149 \(1\): 36-45.](#)
4. LeLuduec, J.B. *et al.* (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.](#)

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**Further Reading**

1. Piriou-guzylack, L. & Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39 \(6\): 54.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 18 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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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** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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