

## Datasheet: MCA2600F

**BATCH NUMBER 168123**

<b>Description:</b>	MOUSE ANTI PIG GRANULOCYTES:FITC
<b>Specificity:</b>	GRANULOCYTES
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2B2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A 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 0.1mg/ml		

<b>Immunogen</b>	Porcine bone marrow hematopoietic cells (BMHC)
<b>RRID</b>	AB_1102597
<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>	<p><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.</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 (<a href="#">MCA2599GA</a>), 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 (<a href="#">Pérez <i>et al.</i> 2007</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Nguyen, D.N. <i>et al.</i> (2016) Delayed development of systemic immunity in preterm pigs as a model for preterm infants. <a href="#">Sci Rep. 6: 36816.</a></li> <li>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. <a href="#">Vaccine. 34 (7): 914-22.</a></li> <li>3. Andersen, A.D. <i>et al.</i> (2019) Synbiotics Combined with Glutamine Stimulate Brain Development and the Immune System in Preterm Pigs. <a href="#">J Nutr. 149 (1): 36-45.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Pérez, C. <i>et al.</i> (2007) Phenotypic and functional characterization of porcine granulocyte developmental stages using two new markers. <a href="#">Dev Comp Immunol. 31 (3): 296-306.</a></li> <li>2. Piriou-guzylack, L. &amp; Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39 (6): 54.</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2600F">https://www.bio-rad-antibodies.com/SDS/MCA2600F</a>

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**Regulatory**

For research purposes only

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## 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](mailto: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](mailto: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](mailto: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](https://bio-rad-antibodies.com/datasheets)

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