

## Datasheet: MCA2599GA

<b>Description:</b>	MOUSE ANTI PIG GRANULOCYTES
<b>Specificity:</b>	GRANULOCYTES (NEUTROPHIL LINEAGE)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	6D10
<b>Isotype:</b>	IgG2a
<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	▪			1/25 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting (1)	▪			

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.

**(1) Clone 6D10 recognizes an antigen from porcine granulocytes under non-reducing conditions**

<b>Target Species</b>	Pig
<b>Product Form</b>	Purified IgG - liquid
<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 Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Porcine bone marrow haematopoietic cells (BMHC).

<b>Fusion Partners</b>	Spleen cells from immunised 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 6D10</b> recognizes a ~60 kDa antigen on porcine granulocytes of the neutrophil lineage, acting as a reliable tool for their analysis and isolation, without contamination from other cells.</p> <p>Expression of the antigen recognized by clone 6D10 decreases from the immature promyelocytes, through myelocytes and metamyelocytes, to the mature neutrophils, thereby enabling the identification of neutrophil developmental stages. Furthermore, use of clone 6D10 in conjunction with clone 2B2 (<a href="#">MCA2600</a>), allows for the discrimination and characterisation 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.</p> <p>Mouse anti Pig Granulocytes antibody, clone 6D10 has been shown as suitable for use on cytopins (<a href="#">Perez et al. 2007</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>Western Blotting</b>	MCA2599GA detects a band of approximately 60kDa in porcine BMHC cell lysates.
<b>References</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. Stone, J.P. <i>et al.</i> (2016) Altered Immunogenicity of Donor Lungs via Removal of Passenger Leukocytes Using <i>Ex Vivo</i> Lung Perfusion. <a href="#">Am J Transplant. 16 (1): 33-43.</a></li> <li>3. Ezquerro, A. <i>et al.</i> (2009) Porcine myelomonocytic markers and cell populations. <a href="#">Dev Comp Immunol. 33 (3): 284-98.</a></li> <li>4. Gardner, D.S. <i>et al.</i> (2016) Remote effects of acute kidney injury in a porcine model. <a href="#">Am J Physiol Renal Physiol. 310 (4): F259-71.</a></li> <li>5. 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> </ol>
<b>Further Reading</b>	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39: 54.</a>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
 Goat Anti Mouse IgG (STAR77...) [HRP](#)  
 Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
 Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)  
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
 Goat Anti Mouse IgG (STAR76...) [RPE](#)  
 Goat Anti Mouse IgG (STAR70...) [FITC](#)  
 Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
 Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)  
 Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
 Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),  
[DyLight@800](#), [FITC](#), [HRP](#)

## Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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