

## Datasheet: MCA2263GA

**BATCH NUMBER 169945**

<b>Description:</b>	MOUSE ANTI PIG CD61
<b>Specificity:</b>	CD61
<b>Other names:</b>	INTEGRIN BETA 3 CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	JM2E5
<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	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

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) This product requires antigen retrieval using heat treatment methods prior to staining of paraffin sections. Sodium citrate buffer pH6.0 is recommended for this purpose.**

<b>Target Species</b>	Pig
<b>Species Cross Reactivity</b>	<p>Reacts with: Dog, Human, Bovine, Horse</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>

<b>Product Form</b>	Purified IgG - liquid
<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 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 peripheral blood mononuclear cells.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q95JH1</a> <a href="#">Related reagents</a>
<b>RRID</b>	AB_11152935
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells of the mouse SP2/0 - Ag14 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Pig CD61 antibody, clone JM2E5</b> recognizes the porcine CD61 cell surface antigen, also known as platelet glycoprotein IIIa or integrin beta.</p> <p>CD61 is present on the megakaryocyte/platelet lineage, granulocytes, cells from the monocyte/macrophage lineage and endothelial cells (<a href="#">Moreno <i>et al.</i> 2002</a>). CD61 is also broadly expressed on tissues, such as epithelial cells from tubules in the kidney (<a href="#">Pirou-Guzylack <i>et al.</i>, 2008</a>), spleen, intestinal mucosa and Leydig cells in testis (<a href="#">Moreno <i>et al.</i> 2002</a>).</p> <p>Mouse anti Pig CD61 antibody, clone JM2E5 detects a band of approximately 85 kDa in porcine platelet lysates by western blotting. The epitope recognized by this antibody is not sensitive to EDTA.</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. Pérez de la Lastra, J.M. <i>et al.</i> (1997) Characterization of the porcine homologue to human platelet glycoprotein IIb-IIIa (CD41/CD61) by a monoclonal antibody. <a href="#">Tissue Antigens. 49 (6): 588-94.</a></li> <li>2. Arce, C <i>et al.</i> (2001) Expression of CD61 (beta 3 integrin subunit) on canine cells. <a href="#">Platelets 12:69-73.</a></li> <li>3. Moreno, A. <i>et al.</i> (2002) Immunohistochemical analysis of beta3 integrin (CD61): expression in pig tissues and human tumors. <a href="#">Histol Histopathol. 17 (2): 347-52.</a></li> <li>4. Zhang, J.L. <i>et al.</i> (2007) Up-regulated expression of beta3 integrin induced by dengue</li> </ol>

- virus serotype 2 infection associated with virus entry into human dermal microvascular endothelial cells. [Biochem Biophys Res Commun. 356: 763-8.](#)
5. Campos, E. *et al.* (2004) *In vitro* effect of classical swine fever virus on a porcine aortic endothelial cell line. [Vet Res. 35: 625-33.](#)
6. Sobotta, K. *et al.* (2017) Permissiveness of bovine epithelial cells from lung, intestine, placenta and udder for infection with *Coxiella burnetii*. [Vet Res. 48 \(1\): 23.](#)
7. Arenal, Á. *et al.* (2022) Effects of Cardiac Stem Cell on Postinfarction Arrhythmogenic Substrate. [Int J Mol Sci. 23 \(24\): 16211.](#)
8. Batchinsky, A.I. *et al.* (2023) Intravenous Autologous Bone-Marrow-derived Mesenchymal Stromal Cells Delay Acute Respiratory Distress Syndrome in Swine. [Am J Respir Crit Care Med. Oct 05 \[Epub ahead of print\].](#)

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**Further Reading** 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2263GA>

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#), [DyLight®650](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)

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