

## Datasheet: MCA2263F

<b>Description:</b>	MOUSE ANTI PIG CD61:FITC
<b>Specificity:</b>	CD61
<b>Other names:</b>	INTEGRIN BETA 3 CHAIN
<b>Format:</b>	FITC
<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	■			Neat - 1/10

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

### Species Cross Reactivity

Reacts with: Dog, Human, Bovine, Horse

**N.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.

### Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> ) 1% bovine serum albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 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_2128899
<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="#">Piriou-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 virus serotype 2 infection associated with virus entry into human dermal microvascular endothelial cells. <a href="#">Biochem Biophys Res Commun. 356: 763-8.</a></li> <li>5. Campos, E. <i>et al.</i> (2004) <i>In vitro</i> effect of classical swine fever virus on a porcine aortic endothelial cell line. <a href="#">Vet Res. 35: 625-33.</a></li> <li>6. Sobotta, K. <i>et al.</i> (2017) Permissiveness of bovine epithelial cells from lung, intestine, placenta and udder for infection with Coxiella burnetii. <a href="#">Vet Res. 48 (1): 23.</a></li> <li>7. Arenal, Á. <i>et al.</i> (2022) Effects of Cardiac Stem Cell on Postinfarction Arrhythmogenic Substrate. <a href="#">Int J Mol Sci. 23 (24): 16211.</a></li> </ol>

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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<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>
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<b>Storage</b>	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.
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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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2263F10041">https://www.bio-rad-antibodies.com/SDS/MCA2263F10041</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

<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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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)  
'M437794:250319'

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