

Datasheet: MCA2263A647

Description:	MOUSE ANTI PIG CD61:Alexa Fluor®647
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	JM2E5
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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.

	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 Alexa Fluor® 647 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665

Preparation

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

Buffer Solution

Phosphate buffered saline

Preservative	0.09% sodium azide (NaN ₃)
Stabilisers	1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	Porcine peripheral blood mononuclear cells.
External Database Links	UniProt: Q95JH1 Related reagents
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the mouse SP2/0 - Ag14 myeloma cell line.
Specificity	<p>Mouse anti Pig CD61 antibody, clone JM2E5 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 (Moreno et al. 2002). CD61 is also broadly expressed on tissues, such as epithelial cells from tubules in the kidney (Piriou-Guzylack et al., 2008), spleen, intestinal mucosa and Leydig cells in testis (Moreno et al. 2002).</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>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 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. Tissue Antigens. 49 (6): 588-94. 2. Arce, C <i>et al.</i> (2001) Expression of CD61 (beta 3 integrin subunit) on canine cells. Platelets 12:69-73. 3. Moreno, A. <i>et al.</i> (2002) Immunohistochemical analysis of beta3 integrin (CD61): expression in pig tissues and human tumors. Histol Histopathol. 17 (2): 347-52. 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. Biochem Biophys Res Commun. 356: 763-8. 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. Vet Res. 35: 625-33. 6. Sobotta, K. <i>et al.</i> (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. <i>et al.</i> (2022) Effects of Cardiac Stem Cell on Postinfarction Arrhythmogenic Substrate. Int J Mol Sci. 23 (24): 16211. 8. Batchinsky, A.I. <i>et al.</i> (2023) Intravenous Autologous Bone-Marrow-derived Mesenchymal Stromal Cells Delay Acute Respiratory Distress Syndrome in Swine. Am J

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

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.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2263A647>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

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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://www.bio-rad-antibodies.com/datasheets)

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