

Datasheet: MCA2263GA

BATCH NUMBER 1708

Description:	MOUSE ANTI PIG CD61
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JM2E5
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

Where this antibody 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 antibody for use in their own system using the 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.

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Porcine peripheral blood mononuclear cells.
External Database Links	UniProt: Q95JH1 Related reagents
RRID	AB_11152935
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 - Ag14 myeloma cell line.
Specificity	Mouse anti Pig CD61 antibody, clone JM2E5 recognizes the porcine CD61 cell surface antigen, also known as platelet glycoprotein IIIa or integrin beta. CD61 is present on the megakaryocyte/platelet lineage, granulocytes, cells from the monocyte/macrophage lineage and endothelial cells (Moreno <i>et al.</i> 2002). CD61 is also broadly expressed on tissues, such as epithelial cells from tubules in the kidney (Pirou-Guzylack <i>et al.</i>, 2008), spleen, intestinal mucosa and Leydig cells in testis (Moreno <i>et al.</i> 2002). The epitope recognized by this antibody is not sensitive to EDTA. Mouse anti Pig CD61 antibody, clone JM2E5 detects a band of approximately 85 kDa in porcine platelet lysates by western blotting.
Flow Cytometry	Use 10 ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	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. *et al.* (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. *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.](#)

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	Store at +4°C or at -20°C if preferred.
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This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

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

North & South America Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: 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

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

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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
'M366486:200529'

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