

Datasheet: MCA2263GA

BATCH NUMBER 154535

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|----------------------|-----------------------|
| 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 | <p>Reacts with: Dog, Human, Bovine, Horse</p> <p>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.</p> |

| | |
|---------------------------------------|---|
| 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 | <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 <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).</p> <p>The epitope recognized by this antibody is not sensitive to EDTA.</p> <p>Mouse anti Pig CD61 antibody, clone JM2E5 detects a band of approximately 85 kDa in porcine platelet lysates by western blotting.</p> |
| Flow Cytometry | Use 10 ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| 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. *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.](#)

Storage Store at +4°C or at -20°C if preferred.

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

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
 Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
 Goat Anti Mouse IgG (STAR76...) [RPE](#)
 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](#)

Recommended Negative Controls

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

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America Fax: +1 919 878 3751

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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

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