

Datasheet: MCA2263F

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

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.

Target Species	Pig		
Species Cross Reactivity	Reacts with: Dog, Human, Bovine, Horse N.B. Antibody reactivity and working conditions may vary between species.		
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		
Preservative Stabilisers	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Porcine peripheral blood mononuclear cells.		

**External Database
Links**

UniProt:

[Q95JH1](#)

[Related reagents](#)

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.

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](#)).

The epitope recognized by this antibody is not sensitive to EDTA.

Mouse anti Pig CD61 antibody, clone JM2E5 detects a band of approximately 85kDa in porcine platelet lysates by western blotting.

Flow Cytometry

Use 10 ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Pérez de la Lastra, J.M. *et al.* (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 *et al.* (2001) Expression of CD61 (beta 3 integrin subunit) on canine cells. [Platelets 12:69-73.](#)
3. Moreno, A. *et al.* (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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety

Material Safety Datasheet documentation #10041 available at:

Information 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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