

Datasheet: MCA2309F

Description:	MOUSE ANTI PIG CD11R3:FITC
Specificity:	CD11R3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	2F4/11
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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Pig		
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 G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Porcine alveolar macrophages		
RRID	AB_2129270		
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the X63-Ag.8.653 myeloma cell line		
Specificity	Mouse anti Pig CD11R3, clone 2F4/11 recognizes porcine CD11R3, a ~155 kDa cell surface		

glycoprotein, member of the alpha integrin family. Mouse anti Pig CD11R3, clone 2F4/11 was clustered as CD11R3 at the Third International Workshop on Swine Leukocyte Differentiation Antigens ([Haverson et al. 2001](#)). CD11R3 has a similar expression pattern to the human CD11b marker, being expressed on granulocytes, monocytes and alveolar macrophages, but not on lymphocytes, erythrocytes or platelets ([Dominguez et al. 2001](#)).

Mouse anti Pig CD11R3, clone 2F4/11 is reported to block phagocytosis of complement-opsonized zymosan particles by polymorphonuclear granulocytes and alveolar macrophages ([Bullido et al. 1996](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to 1×10^6 cells in 100ul.

References

1. Sbrana, S. *et al.* (2014) Phenotype Changes of Circulating Monocytes in a Hypercholesterolemic Swine Model of Coronary Artery Disease [J Cytol Histol 5:270](#)
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3. Sánchez-Torres C *et al.* (2003) Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. [Arch Virol. 148 \(12\): 2307-23.](#)
4. Van de Walle, G.R. *et al.* (2003) Transmission of pseudorabies virus from immune-masked blood monocytes to endothelial cells. [J Gen Virol. 84 \(Pt 3\): 629-37.](#)
5. Alvarez, B. *et al.* (2000) Molecular and functional characterization of porcine LFA-1 using monoclonal antibodies to CD11a and CD18. [Xenotransplantation 7: 258-266](#)
6. Sánchez, C. *et al.* (1999) The porcine 2A10 antigen is homologous to human CD163 and related to macrophage differentiation. [J Immunol. 162: 5230-7](#)
7. Thorgersen, E.B. *et al.* (2010) Anti-inflammatory effects of C1-Inhibitor in porcine and human whole blood are independent of its protease inhibition activity. [Innate Immun. 16: 254-64](#)
8. Thorgersen, E.B. *et al.* (2010) CD14 inhibition efficiently attenuates early inflammatory and hemostatic responses in *Escherichia coli* sepsis in pigs. [FASEB J. 24: 712-22](#)
9. Baert K *et al.* (2015) Cell type-specific differences in β -glucan recognition and signalling in porcine innate immune cells. [Dev Comp Immunol. 48 \(1\): 192-203.](#)
10. Barratt-Due, A. *et al.* (2011) *Ornithodoros moubata* Complement Inhibitor Is an Equally Effective C5 Inhibitor in Pigs and Humans. [J Immunol. 187: 4913-9](#)
11. Jacobsen, M.J. *et al.* (2016) Altered Methylation Profile of Lymphocytes Is Concordant with Perturbation of Lipids Metabolism and Inflammatory Response in Obesity. [J Diabetes Res. 2016: 8539057.](#)
12. Crisci, E. *et al.* (2012) Chimeric calicivirus-like particles elicit specific immune responses in pigs. [Vaccine. 30 \(14\): 2427-39.](#)
13. Debeer, S. *et al.* (2013) Comparative histology and immunohistochemistry of porcine versus human skin. [Eur J Dermatol. 23 \(4\): 456-66.](#)
14. Westover, A.J. *et al.* (2016) An Immunomodulatory Device Improves Insulin Resistance in Obese Porcine Model of Metabolic Syndrome. [J Diabetes Res. 2016: 3486727.](#)
15. LeLuduec, J.B. *et al.* (2016) Intradermal vaccination with un-adjuvanted sub-unit vaccines triggers skin innate immunity and confers protective respiratory immunity in domestic swine. [Vaccine. 34 \(7\): 914-22.](#)

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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

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

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 Email: antibody_sales_de@bio-rad.com
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