Datasheet: MCA2309GA BATCH NUMBER 152016

Description:	MOUSE ANTI PIG CD11R3 CD11R3		
Specificity:			
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	2F4/11		
Isotype:	lgG1		
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				1/25 - 1/50
Immunohistology - Frozen				
Immunohistology - Paraffin			•	
ELISA			•	
Immunoprecipitation				
Western Blotting				
Functional Assays (1)				

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.

(1) Removal of sodium azide is recommended prior to use in functional assays - Bio-Rad recommend the use of <u>EQU003</u> for this purpose.

Target Species	Pig
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)

Stabilisers

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Porcine alveolar macrophages
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 <i>et al.</i> 2001). CD11R3 has a similar expression pattern to the human CD11b marker, being expressed on granulocytes, monocytes and alveolar macrophages, but not on lymphocytes, eythrocytes or platelets (Dominguez <i>et al.</i> 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 <i>et al.</i> 1996).
Flow Cytometry	Use 10ul of the suggested working dilution to 1×10^6 cells in 100ul
Histology Positive Control Tissue	Porcine spleen
Western Blotting	Clone 2F4/11 detects a band of approximately 155 kDa in alveolar macrophage lysates under reducing conditions
References	 Sbrana, S. <i>et al.</i> (2014) Phenotype Changes of Circulating Monocytes in a Hypercholesterolemic Swine Model of Coronary Artery Disease J Cytol Histol 5:270 Domínguez, J. <i>et al.</i> (2001) Workshop studies on monoclonal antibodies in the myeloid panel with CD11 specificity. <u>Vet Immunol Immunopathol. 80 (1-2): 111-9.</u> Sánchez-Torres C <i>et al.</i> (2003) Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. <u>Arch Virol. 148 (12): 2307-23.</u> Van de Walle, G.R. <i>et al.</i> (2003) Transmission of pseudorabies virus from immune- masked blood monocytes to endothelial cells. J Gen Virol. 84 (Pt 3): 629-37. Alvarez, B. <i>et al.</i> (2000) Molecular and functional characterization of porcine LFA-1 using monoclonal antibodies to CD11a and CD18. Xenotransplantation 7: 258-266 Sánchez, C. <i>et al.</i> (1999) The porcine 2A10 antigen is homologous to human CD163 and related to macrophage differentiation. J Immunol. 162: 5230-7 Thorgersen, E.B. <i>et al.</i> (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 Thorgersen, E.B. <i>et al.</i> (2010) CD14 inhibition efficiently attenuates early inflammatory and hemostatic responses in <i>Escherichia coli</i> sepsis in pigs. <u>FASEB J. 24: 712-22</u>

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	vaccines triggers skin innate immunity and confers protective respiratory immunity in
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Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. <u>Vet Res. 39: 54</u>
Further Reading Storage	
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Storage Guarantee	Vet Res. 39: 54 Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch
Storage Guarantee Health And Safety	Vet Res. 39: 54 Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch Material Safety Datasheet documentation #10040 available at:

Related Products

Recommended Secondary Antibodies

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

Goat Anti Mouse IgG (STAR77...)

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-	rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M366619:200529'

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