Datasheet: MCA2316GA BATCH NUMBER 154019

Description:	MOUSE ANTI PIG CD169
Specificity:	CD169
Other names:	SIALOADHESIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	3B11/11
lsotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been re derived from testing with communications from the information. For general	ne following application peer-reviewed publica e refer to references in idations, please visit <u>w</u>	ations. This information is dications or personal es indicated for further sit <u>www.bio-</u>				
	rad-antibodies.com/protocols.						
	Flow Outomatry	Yes -	NO	Not Determined	Suggested Dilution		
	Flow Cytometry	-			1/10 - 1/100		
	Immunonistology - Flozen	-					
	ELISA			· ·			
	Immunoprocinitation			-			
		-					
	Where this antibady has	not boon	tested for	una in a particular taa	baique this does not		
	Where this antibody has not been tested for use in a particular technique this does not						
	necessarily exclude its u	se in suci	n proceau	res. 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 - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered salin	e					
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)					

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Porcine alveolar macrophages.
External Database Links	UniProt: <u>A7LCJ3</u> <u>Related reagents</u> Entrez Gene: 397623 SIGLEC-1 Related reagents
Synonyms	SA, SN
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63-Ag.8.653 myeloma cell line.
Specificity	 Mouse anti Pig CD169, clone 3B11/11 recognizes porcine CD169, also known as sialoadhesin or Siglec-1, a member of the sialic acid binding immunoglobulin-like lectin (Siglec) family. CD169 was originally identified in mice and identified as the sialic acid dependent Sheep erythrocyte receptor (Crocker <i>et al.</i>1986). CD169 has subsequently been identified in rat (van den Berg <i>et al.</i> 1992), human (Mucklow <i>et al.</i> 1995) and pig (Vanderheijden <i>et al.</i> 2003) . Mouse anti Porcine CD169, clone 3B1/11 was originally raised as part of a panel of anti porcine macrophage monoclonal antibodies raised against isolated porcine alveolar macrophages (Bullido <i>et al.</i> 1997). Immunohistochemical analysis indicated restriction to macrophage populations mainly in the spleen, lymph nodes, liver and Peyer's patches. Originally described as a non phagocytic intercellular adhesion receptor, work on porcine CD169 indicated that it may play a role as a viral adhesion receptor (Delputte <i>et al.</i> 2006) and as a targeted receptor for the delivery of toxins and antigens (Delputte <i>et al.</i> 2011) . Mouse anti pig CD169, clone 3B11/11 detects a band of approximately 190 kDa in alveolar macrophage extracts under non-reducing conditions (Revilla <i>et al.</i> 2009).
Flow Cytometry	Use 10ul of the suggested working dilution to 1×10^6 cells in 100ul.
Histology Positive Control Tissue	Porcine spleen
References	 Thacker, E. <i>et al.</i> (2001) Summary of workshop findings for porcine myelomonocytic markers. <u>Vet Immunol Immunopathol. 80 (1-2): 93-109.</u> Prather, R.S. <i>et al.</i> (2013) An Intact Sialoadhesin (Sn/SIGLEC1/CD169) Is Not Required for Attachment/Internalization of the Porcine Reproductive and Respiratory Syndrome Virus. <u>J Virol. 87: 9538-46.</u> Revilla, C. <i>et al.</i> (2009) Targeting to porcine sialoadhesin receptor improves antigen

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	5. Costa-Hurtado, M. et al. (2013) Changes in macrophage phenotype after infection of
	pigs with <i>Haemophilus parasuis</i> strains with different levels of virulence. Infect Immun. 81
	(7): 2327-33.
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	composition of the extracellular virus envelope, J Virol, 82 (5); 2150-60.
	7. Perdiguero, B. & Blasco, R. (2006) Interaction between vaccinia virus extracellular virus
	envelope A33 and B5 glycoproteins, J Virol, 80 (17); 8763-77.
	8. Burkard, C. et al. (2017) Precision engineering for PRRSV resistance in pigs:
	Macrophages from genome edited pigs lacking CD163 SRCR5 domain are fully resistant
	to both PRRSV genotypes while maintaining biological function PLoS Pathog 13 (2):
	e1006206
	9 Whitworth K M et al. (2016) Gene-edited pigs are protected from porcine reproductive
	and respiratory syndrome virus. Nat Biotechnol. 34 (1): 20-2
	10 Wells K D <i>et al.</i> (2017) Replacement of Porcine CD163 Scavenger Receptor
	Cysteine-Rich Domain 5 with a CD163-I ike Homolog Confers Resistance of Pigs to
	Genotype 1 but Not Genotype 2 Porcine Reproductive and Respiratory Syndrome Virus
	Virol 91 (2): pii: $e01521-16$
	11 Ezguerra A et al. (2000) Porcine myelomonocytic markers and cell populations. Dev
	Comp Immunol. 33 (3): 284.08
	20 Singleten H. et al. (2016) Establishing Dersing Managuta Derived Magraphage and
	Dendritie Cell Systems for Studying the Interaction with DDDS)(1. Front Microbiol. 7, 822
	12 Chan L et al. (2010) Conception of Dire Desistant to Linkly Defension Density
	13. Chen, J. et al. (2019) Generation of Pigs Resistant to Highly Pathogenic-Porcine
	Reproductive and Respiratory Syndrome Virus through Gene Editing of CD163. Int J Biol
	<u>Sci. 15 (2): 481-492.</u>
	14. LI, P. et al. (2020) Susceptibility of porcine pulmonary microvascular endothelial cells
	to porcine reproductive and respiratory syndrome virus. <u>J Vet Med Sci. 82 (9): 1404-9.</u>
Further Reading	1 Piriou-Guzvlack I (2008) Membrane markers of the immune cells in swine: an update
r annor rioùdunig	Vet Res 30. 54
Storage	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.
Guarantee	12 months from date of despatch
Health And Safetv	Material Safety Datasheet documentation #10040 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA2316GA
	10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Dabbit A		рр	E				
Rabbit A	Rabbit Anti Mouse IgG (STAR12) <u>RPE</u>						
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>							
Goat Ant	i Mouse IgG (STAR76)	RPE					
Rabbit Ar	nti Mouse IgG (STAR13)	HRP					
Goat Ant	i Mouse IgG (STAR70)	FITC					
Goat Ant	i Mouse IgG (H/L) (STAR117)	17) <u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,					
		Dyl	<u>_ight®650</u> , <u>DyLight®68</u>	0, DyLight®8	<u>00,</u>		
		FIT	<u>C, HRP</u>				
Rabbit Ar	nti Mouse IgG (STAR9)	<u>FIT</u>	C				
Goat Ant	Goat Anti Mouse IgG (STAR77) <u>HRP</u>						
Goat Anti Mouse IgG (Fc) (STAR120) <u>FITC</u> , <u>HRP</u>							
Recommended Negative Controls							
MOUSE IgG1 NEGATIVE CONTROL (MCA928)							
North & South	Tel: +1 800 265 7376 Worldw	ide	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-rad.com		Email: antibody_sales_uk@bic	o-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 'M366638:200529'							

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