

Datasheet: MCA2314GA BATCH NUMBER 154296

Description:	MOUSE ANTI PIG SLA CLASS II DR
Specificity:	SLA CLASS II DR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2E9/13
lsotype:	lgG2b
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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	•			1/25 - 1/200	
	Immunohistology - Frozen	-				
	Immunohistology - Paraffin					
	ELISA					
	Immunoprecipitation	-				
	Western Blotting					
Target Species	Where this antibody has necessarily exclude its u the antibody for use in th Pig	se in such	procedu	res. It is recommended	d that the user titrates	
Species Cross Reactivity	Reacts with: Bovine N.B. Antibody reactivity a reactivity is derived from personal communication further information.	testing wi	thin our la	aboratories, peer-revie	wed publications or	
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by supernatant	r affinity ch	romatogr	aphy on Protein A fror	n tissue culture	

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 monocytes.
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 SLA Class II DR antibody, clone 2E9/13 recognizes SLA DR molecules which are expressed on all B cells, antigen presenting cells and on certain subsets of resting and activated T cells. Mouse anti Pig SLA Class II DR antibody, clone 289/13 reacts with lymphocytes from all outbred and miniature pigs so far tested, suggesting that it recognizes a monomorphic determinant of porcine SLA DR.
	The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In pigs, this is referred to as the swine leukocyte antigen (SLA) region. There are 3 major MHC class II proteins encoded by the SLA which are SLA DP, SLA DQ and SLA DR.
	Mouse anti pig SLA class II DR, clone 2E9/13 immunoprecipitates a heterodimer composed of two polypeptides of ~28 and ~35 kDa from NP-40 extracts of biotin surface-labeled porcine peripheral blood mononuclear cells. Mouse anti Pig SLA Class II DR antibody, clone 289/13 is reported to inhibit the mixed lymphocyte reaction and T cell stimulation induced by African swine fever virus and staphylococcal enterotoxin B (<u>Bullido et al. 1997</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to 1×10^6 cells in 100ul.
References	 Bullido, R. <i>et al.</i> (1997) Characterization of five monoclonal antibodies specific for swine class II major histocompatibility antigens and crossreactivity studies with leukocytes of domestic animals. <u>Dev Comp Immunol. 21 (3): 311-22.</u> Jeong, H.J. <i>et al.</i> (2010) Comparative measurement of cell-mediated immune responses of swine to the M and N proteins of porcine reproductive and respiratory syndrome virus. <u>Clin Vaccine Immunol. 17: 503-12.</u> Ding, Q. <i>et al.</i> (2011) Human PD-L1-overexpressing porcine vascular endothelial cells induce functionally suppressive human CD4+CD25hiFoxp3+ Treg cells. <u>J Leukoc Biol. 90</u> (<u>1): 77-86.</u> Wang, Y. <i>et al.</i> (2016) Genipin crosslinking reduced the immunogenicity of xenogeneic decellularized porcine whole-liver matrices through regulation of immune cell proliferation and polarization. <u>Sci Rep. 6: 24779.</u> Park KM <i>et al.</i> (2013) Generation of porcine induced pluripotent stem cells and

	 evaluation of their major histocompatibility complex protein expression in <u>Commun. 37 (4): 293-301.</u> 6. Iwase H <i>et al.</i> (2015) Initial <i>in vivo</i> experience of pig artery patch transbaboons using mutant MHC (CIITA-DN) pigs. <u>Transpl Immunol. 32 (2): 5</u> 7. Singleton, H. <i>et al.</i> (2016) Establishing Porcine Monocyte-Derived Ma Dendritic Cell Systems for Studying the Interaction with PRRSV-1. <u>Front</u> 8. Zanotti, C. <i>et al.</i> (2015) Differential Biological Activities of Swine Interd J Interferon Cytokine Res. 35 (12): 990-1002. 9. Rayat GR <i>et al.</i> (2016) First update of the International Xenotransplar consensus statement on conditions for undertaking clinical trials of porci in type 1 diabetes - Chapter 3: Porcine islet product manufacturing and criteria. Xenotransplantation. 23 (1): 38-45. 10. Mašek J <i>et al.</i> (2016) Multi-layered nanofibrous mucoadhesive films sublingual administration of drug-delivery and vaccination nanoparticles towards effective mucosal vaccines. J Control Release. Jul 25. pii: S0168-3659(16)30471-0 [Epub ahead of print] 11. Gardner, D.S. <i>et al.</i> (2016) Remote effects of acute kidney injury in a Am J Physiol Renal Physiol. 310 (4): F259-71. 12. Rahe, M.C. & Murtaugh, M.P. (2017) Interleukin-21 Drives Proliferati Differentiation of Porcine Memory B Cells into Antibody Secreting Cells. <u>e0171171.</u> 13. López, E. <i>et al.</i> (2018) Reduced antigen presentation capability and r inflammatory/immunosuppressive cytokine expression of induced monoc dendritic cells from peripheral blood of piglets infected with porcine circor Virol. 163 (5): 1231-9. 	splantation in <u>39-108.</u> acrophage and <u>Microbiol. 7: 832.</u> feron-α Subtypes. Intation Association ne islet products release testing for buccal and - important step a porcine model. on and <u>PLoS One. 12 (1):</u> ers in a porcine modified cyte-derived
Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in <u>Vet Res. 39: 54.</u>	swine: an update.
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 th denature the antibody. Should this product contain a precipitate we reco microcentrifugation before use.	•
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: <u>https://www.bio-rad-antibodies.com/SDS/MCA2314GA</u> 10040	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Rabbit Ai	nti Mouse IgG (STAR12)	RPE				
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>						
Goat Ant	i Mouse IgG (STAR76)	76) <u>RPE</u>				
Goat Ant	i Mouse IgG (STAR70)	<u>FITC</u>				
Goat Ant	i Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyL	<u>ight®550,</u>			
		<u>DyLight®650, DyLight®680, D</u>	DyLight®800),		
		<u>FITC, HRP</u>				
Rabbit Ar	nti Mouse IgG (STAR9)	<u>FITC</u>				
Goat Ant	i Mouse IgG (STAR77)	HRP				
Goat Ant	Goat Anti Mouse IgG (Fc) (STAR120) <u>FITC</u> , <u>HRP</u>					
Rabbit Ar	Rabbit Anti Mouse IgG (STAR13) <u>HRP</u>					
Recommended Negative Controls						
MOUSE IgG2b NEGATIVE CONTROL (MCA691)						
North & South America	Tel: +1 800 265 7376 Worldwi Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	de Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.	Europe com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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 'M366631:200529'						

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