

Datasheet: MCA2314F BATCH NUMBER 148460

Description:	MOUSE ANTI PIG SLA CLASS II DR:FITC
Specificity:	SLA CLASS II DR
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	2E9/13
Isotype:	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 generation	•					
	rad-antibodies.com/protocols.						
	· · · · ·	Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	-			Neat		
	Where this antibody has not been tested for use in a particular technique this does not						
	necessarily exclude its	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						
Species Cross Reactivity	Reacts with: Bovine N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)			
	FITC	490		525			
Preparation	Purified IgG prepared supernatant	by affinity chr	omatogr	aphy on Protein A fror	n tissue culture		
Buffer Solution	Phosphate buffered sa	aline					

Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Porcine monocytes.
RRID	AB_567376
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 (Bullido et al. 2007)
Flow Cytometry	et al. 1997). Use 10ul of the suggested working dilution to 1x10 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. J Leukoc Biol. 90 (1): 77-86. 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 vitro. <u>Vet Res Commun. 37 (4): 293-301.</u>

	 Iwase H <i>et al.</i> (2015) Initial <i>in vivo</i> experience of pig artery p baboons using mutant MHC (CIITA-DN) pigs. <u>Transpl Immunol</u> 7. Singleton, H. <i>et al.</i> (2016) Establishing Porcine Monocyte-Do Dendritic Cell Systems for Studying the Interaction with PRRS¹⁸ 8. Zanotti, C. <i>et al.</i> (2015) Differential Biological Activities of Sw J Interferon Cytokine Res. 35 (12): 990-1002. Rayat GR <i>et al.</i> (2016) First update of the International Xend consensus statement on conditions for undertaking clinical tria in type 1 diabetes - Chapter 3: Porcine islet product manufactur criteria. Xenotransplantation. 23 (1): 38-45. Mašek J <i>et al.</i> (2016) Multi-layered nanofibrous mucoadher sublingual administration of drug-delivery and vaccination nand towards effective mucosal vaccines. J Control Release. Jul 25. <u>S0168-3659(16)30471-0 [Epub ahead of print]</u> Gardner, D.S. <i>et al.</i> (2016) Remote effects of acute kidney <u>Am J Physiol Renal Physiol. 310 (4): F259-71.</u> Rahe, M.C. & Murtaugh, M.P. (2017) Interleukin-21 Drives Differentiation of Porcine Memory B Cells into Antibody Secret <u>e0171171.</u> López, E. <i>et al.</i> (2018) Reduced antigen presentation capatr inflammatory/immunosuppressive cytokine expression of induc dendritic cells from peripheral blood of piglets infected with por <u>Virol. 163 (5): 1231-9.</u> 	 <u>1. 32 (2): 99-108.</u> erived Macrophage and V-1. Front Microbiol. 7: 832. wine Interferon-α Subtypes. otransplantation Association Is of porcine islet products uring and release testing sive films for buccal and oparticles - important step <u>pii:</u> injury in a porcine model. Proliferation and ing Cells. PLoS One. 12 (1): tory markers in a porcine pility and modified ed monocyte-derived
Further Reading	1. Piriou-Guzylack, L. (2008) Membrane markers of the immun <u>Vet Res. 39: 54.</u>	e cells in swine: an update.
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 produce should be protected from light.	ct is photosensitive and
	Avoid repeated freezing and thawing as this may denature the product contain a precipitate we recommend microcentrifugation	-
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2314F 10041	
Regulatory	For research purposes only	

Related Products

MOUSE IgG2b NEGATIVE CONTROL:FITC (MCA691F)

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-	rad.com	Email: antibody_sales_uk@bio-ra	d.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 'M366630:200529'

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