

Datasheet: MCA1044F BATCH NUMBER 1015

Description:	RAT ANTI DOG MHC CLASS II MONOMORPHIC:FITC			
Specificity:	cificity: MHC CLASS II MONOMORPHIC			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Clone:	YKIX334.2			
Isotype:	lgG2a			
Quantity:	100 TESTS			

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	-			Neat	
	Where this antibody h	as not been te	sted for u	ise in a particular t	echnique this does not	
	necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.					
Target Species	Dog					
Species Cross Reactivity	Does not react with:Hooded Seal					
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)	Emission Max (nm)		
	FITC	490		525		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissu supernatant				rom 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	Con A activated canine peripheral blood cells.					
RRID	AB_322642					
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line.					
Specificity	Rat anti Dog MHC Class II Monomorphic antibody, clone YKIX334.2 recognizes a monomorphic epitope on canine MHC Class II and was classified at the First Canine Leucocyte Antigen Workshop (Cobbold <i>et al.</i> 1994). The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In dogs, this is referred to as the dog leukocyte antigen (DLA) region. Rat anti Dog MHC Class II immunoprecipitates an antigen of ~32/34 kDa and blocks the proliferation of MHC Class II dependent responses <i>in vitro</i> . In dogs, MHC Class II is expressed by all peripheral blood mononuclear cells.					
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.					
References	 Cobbold, S. & Metcalfe, S. (1994) Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). <u>Tissue Antigens. 43 (3): 137-54.</u> Watson, C.J. <i>et al.</i> (1994) Immunosuppression of canine renal allograft recipients by CD4 and CD8 monoclonal antibodies. <u>Tissue Antigens. 43 (3): 155-62.</u> Reis, A.B. <i>et al.</i> (2006) Phenotypic features of circulating leucocytes as immunological markers for clinical status and bone marrow parasite density in dogs naturally infected by <i>Leishmania chagasi.</i> <u>Clin Exp Immunol.146: 303-11.</u> Araújo, M.S. <i>et al.</i> (2011) Immunological changes in canine peripheral blood leukocytes triggered by immunization with first or second generation vaccines against canine visceral leishmaniasis. <u>Vet Immunol Immunopathol. 141: 64-75.</u> Bonnefont-Rebeix, C. <i>et al.</i> (2007) Toll-like receptor 3 (TLR3): a new marker of canine monocytes-derived dendritic cells (cMo-DC). <u>Vet Immunol Immunopathol. 2007 Jul 15;118(1-2):134-9.</u> Bund, D. <i>et al.</i> (2010) Canine-DCs using different serum-free methods as an approach to provide an animal-model for immunotherapeutic strategies. <u>Cell Immunol. 263: 88-98.</u> Mito, K. <i>et al.</i> (2010) IFNy markedly cooperates with intratumoral dendritic cell vaccine in dog tumor models. <u>Cancer Res. 70: 7093-101.</u> Sanchez, M.A. <i>et al.</i> (2004) Organ-specific immunity in canine visceral leishmaniasis: analysis of symptomatic and asymptomatic dogs naturally infected with <i>Leishmania chagasi.</i> Am J Trop Med Hyg. 70: 618-24. Schütze, N. <i>et al.</i> (2009) Inactivated parapoxvirus ovis activates canine blood phagocytes and T lymphocytes. <u>Vet Microbiol. 137: 260-7.</u> Liu, Y. <i>et al.</i> (2000) Immunosuppressant-free allotransplantation of the tracheaThe antigenicity of tracheal grafts can be reduced by removing the epithelium and mixed glands from the graft by detergent treatment.					

	 hooded seal (Cystophora cristata) alveolar macrophages <i>in vitro</i>. <u>PLoS One. 8: e70186.</u> 12. Bonnefont-Rebeix, C. <i>et al.</i> (2016) Characterization of a novel canine T-cell line established from a spontaneously occurring aggressive T-cell lymphoma with large granular cell morphology. <u>Immunobiology. 221 (1): 12-22.</u> 13. Lin, S-C. <i>et al.</i> (2014) Immune Characterization of Peripheral Blood Mononuclear cells of the Dogs Restored from Innoculation of Canine Transmissible Venereal Tumor Cells. <u>Tai Vet J. 40 (04): 181-90.</u> 14. Constantinoiu, C.C. <i>et al.</i> (2015) Mucosal tolerance of the hookworm Ancylostoma caninum in the gut of naturally infected wild dogs. <u>Parasite Immunol. Jul 27 [Epub ahead of print].</u>
	15. Lu, T. <i>et al.</i> (2017) Effects of cryopreservation on tracheal allograft antigenicity in
	dogs. J Thorac Dis. 9 (7): 2038-2047.
	dogs. <u>o morao Dis. 5 (1). 2000-2041.</u>
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted. 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
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1044F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:FITC (MCA6005F) RAT IgG2a NEGATIVE CONTROL:FITC (MCA1212F)

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-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 'M364713:200529'

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