

# Datasheet: MCA1044F BATCH NUMBER 1608

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

## **Product Details**

Applications	This product has been reported to work in the following applications. This informatic derived from testing within our laboratories, peer-reviewed publications or personal				
	communications from	the originators	. Please re	efer to reference	s indicated for further
	information. For general protocol recommendations, please visit www.bio-				
	rad-antibodies.com/pro	otocols.			
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat
	Where this antibody ha	as not been te	sted for us	se in a particular	technique this does not
	necessarily exclude its	s use in such p	rocedures	s. Suggested wo	rking dilutions are given as
	a guide only. It is reco	mmended that	the user t	itrates the antibo	ody for use in their own
	system using appropri	ate negative/po	ositive cor	ntrols.	
Target Species	Dog				
Species Cross Reactivity	Does not react with:Ho	ooded Seal			
Product Form	Purified IgG conjugate	ed to Fluoresce	in Isothiod	cyanate Isomer ´	1 (FITC) - liquid
Max Ex/Em	Fluorophore	Excitation Ma	x (nm) E	mission Max (nm	1)
	FITC	490	( )	525	,
Preparation	Purified IgG prepared supernatant	by affinity chro	omatograp	hy on Protein G	from tissue culture
Buffer Solution	Phosphate buffered sa	aline			
Preservative	0.09% Sodium Azide				
Stabilisers	1% Bovine Serum	Albumin			
	170 Dovine Seluin				

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	<b>Rat anti Dog MHC Class II Monomorphic antibody, clone YKIX334.2</b> 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 <sup>6</sup> cells in 100ul.
References	<ol> <li>Cobbold, S. &amp; 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></li> <li>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></li> <li>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></li> <li>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></li> <li>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></li> <li>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></li> <li>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></li> <li>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.</li> <li>Schütze, N. <i>et al.</i> (2009) Inactivated parapoxvirus ovis activates canine blood phagocytes and T lymphocytes. <u>Vet Microbiol. 137: 260-7.</u></li> <li>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.</li></ol>

	<ul> <li>hooded seal (Cystophora cristata) alveolar macrophages <i>in vitro</i> 12. Bonnefont-Rebeix, C. <i>et al.</i> (2016) Characterization of a novestablished from a spontaneously occurring aggressive T-cell lying granular cell morphology. <u>Immunobiology. 221 (1): 12-22.</u></li> <li>13. Lin, S-C. <i>et al.</i> (2014) Immune Characterization of Periphera of the Dogs Restored from Innoculation of Canine Transmissible <u>Tai Vet J. 40 (04): 181-90.</u></li> <li>14. Constantinoiu, C.C. <i>et al.</i> (2015) Mucosal tolerance of the hor caninum in the gut of naturally infected wild dogs. <u>Parasite Immunof print].</u></li> <li>15. Lu, T. <i>et al.</i> (2017) Effects of cryopreservation on tracheal allocations.</li> </ul>	<ul> <li><u>PLoS One. 8: e70186.</u></li> <li>vel canine T-cell line</li> <li>mphoma with large</li> <li>al Blood Mononuclear cells</li> <li>venereal Tumor Cells.</li> <li>pokworm Ancylostoma</li> <li>unol. Jul 27 [Epub ahead</li> <li>lograft antigenicity in</li> </ul>
	dogs. <u>J Thorac Dis. 9 (7): 2038-2047.</u>	
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. This product is photose protected from light. Avoid repeated freezing and thawing as this may denature the a product contain a precipitate we recommend microcentrifugation	ensitive and should be antibody. Should this a 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 World	ldwide	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-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 'M364713:200529'

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