Datasheet: MCA1820F BATCH NUMBER 153320

Description:	MOUSE ANTI BOVINE INTERLEUKIN-4:FITC
Specificity:	IL-4
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CC303
Isotype:	lgG2a
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> .					
	i	Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry (1)	•				
	a guide only. It is reco system using appropri	s use in such p mmended tha ate negative/p abilization is	procedur t the use positive c required	es. Suggested working r titrates the product f ontrols. for this application.	g dilutions are given as or use in their own Bio-Rad recommend	
Target Species	Bovine					
Species Cross Reactivity	Reacts with: Dog, Pig, N.B. Antibody reactivit reactivity is derived fro personal communication further information.	y and working om testing with) conditic nin our la	ns may vary between boratories, peer-revie	species. Cross wed publications or	
Product Form	Purified IgG conjugate	d to Fluoresce	ein Isothi	ocyanate Isomer 1 (F	ITC) - liquid	
Max Ex/Em	Fluorophore FITC	Excitation Ma	ax (nm)	Emission Max (nm) 525		
Preparation	Purified IgG prepared supernatant	by affinity chro	omatogra	aphy on Protein A fron	n tissue culture	

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1mg/ml
External Database Links	UniProt: <u>P30367</u> Related reagents
	Entrez Gene: <u>280824</u> IL4 <u>Related reagents</u>
RRID	AB_10964404
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Bovine Interleukin-4 antibody, clone CC303 recognizes bovine interleukin 4
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	 Pedersen, L.G. <i>et al.</i> (2002) Identification of monoclonal antibodies that cross-react with cytokines from different animal species. <u>Vet Immunol Immunopathol. 88 (3-4): 111-22.</u> Aasted, B. <i>et al.</i> (2002) Cytokine profiles in peripheral blood mononuclear cells and lymph node cells from piglets infected in utero with porcine reproductive and respiratory syndrome virus. <u>Clin Diagn Lab Immunol. 9 (6): 1229-34.</u> Nielsen, L. <i>et al.</i> (2009) Lymphotropism and host responses during acute wild-type canine distemper virus infections in a highly susceptible natural host. <u>J Gen Virol. 90: 2157-65.</u> Jaber, J.R. <i>et al.</i> (2010) Cross-reactivity of anti-human, anti-porcine and anti-bovine cytokine antibodies with cetacean tissues. <u>J Comp Pathol. 143: 45-51.</u> Martel, C.J. & Aasted, B. (2009) Characterization of antibodies against ferret immunoglobulins, cytokines and CD markers. <u>Vet Immunol Immunopathol. 132:109-15.</u> Fellman, C.L. <i>et al.</i> (2011) Cyclosporine A affects the in vitro expression of T cell activation-related molecules and cytokines in dogs. <u>Vet Immunol Immunopathol. 140: 175-80.</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> Jensen, P.V. <i>et al.</i> (2003) Cytokine profiles in adult mink infected with Aleutian mink disease parvovirus. <u>J Virol. 77: 7444-51.</u> Papadogiannakis, E.I. <i>et al.</i> (2009) Determination of intracellular cytokines IFN-gamma and IL-4 in canine T lymphocytes by flow cytometry following whole-blood culture. <u>Can J Vet Res. 73: 137-43.</u> Rutigliano, J.A. <i>et al.</i> (2008) Screening monoclonal antibodies for cross-reactivity in

StorageStore at +4°C or at -20°C if preferred.This product should be stored undiluted.Storage in frost free freezers is not recommended. 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.Guarantee12 months from date of despatchHealth And Safety InformationMaterial Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1820F 10041RegulatoryFor research purposes only		 the ferret model of influenza infection. <u>J Immunol Methods. 336: 71-7.</u> 11. Taubert A <i>et al.</i> (2008) Antigen-induced cytokine production in lymphocytes of <i>Eimeria bovis</i> primary and challenge infected calves. <u>Vet Immunol Immunopathol. 126 (3-4):</u> <u>309-20.</u> 12. Hamza, E. <i>et al.</i> (2007) Modulation of allergy incidence in icelandic horses is associated with a change in IL-4-producing T cells. <u>Int Arch Allergy Immunol. 144: 325-37.</u> 13. Costa-Pereira, C. <i>et al.</i> (2015) One-year timeline kinetics of cytokine-mediated cellular immunity in dogs vaccinated against visceral leishmaniasis. <u>BMC Vet Res. 11 (1): 92.</u> 14. Dean, G.S. <i>et al.</i> (2005) Minimum infective dose of <i>Mycobacterium bovis</i> in cattle. <u>Infect Immun. 73 (10): 6467-71.</u> 15. Araújo, M.S. <i>et al.</i> (2009) T-cell-derived cytokines, nitric oxide production by peripheral blood monocytes and seric anti-Leishmania (Leishmania) chagasi IgG subclass patterns following immunization against canine visceral leishmaniasis using Leishvaccine and Leishmune. <u>Vaccine. 27 (7): 1008-17.</u> 16. Yang, J. <i>et al.</i> (2016) Vaccination against canine leishmaniosis increases the phagocytic activity, nitric oxide production and expression of cell activation/migration molecules in neutrophils and monocytes. <u>Vet Parasitol. 220: 33-45.</u> 18. Geherin, S.A. <i>et al.</i> (2013) Ovine skin-recirculating yδ T cells express IFN-γ and IL-17 and exit tissue independently of CCR7. <u>Vet Immunol Immunopathol. 155 (1-2): 87-97.</u> 19. Aguiar-Soares, R.D.O. <i>et al.</i> (2020) Phase I and II Clinical Trial Comparing the LBSap, Leishmune[®], and Leish-Tec[®] Vaccines against Canine Visceral Leishmaniasis. <u>Vaccines (Basel). 8 (4)Nov 17 [Epub ahead of print].</u>
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 Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1820F	Storage	This product should be stored undiluted.
Health And Safety Material Safety Datasheet documentation #10041 available at: Information https://www.bio-rad-antibodies.com/SDS/MCA1820F 10041		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
Information <u>https://www.bio-rad-antibodies.com/SDS/MCA1820F</u> 10041	Guarantee	12 months from date of despatch
Regulatory For research purposes only	•	https://www.bio-rad-antibodies.com/SDS/MCA1820F
	Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:FITC (MCA929F)

North & South	n 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	То
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.comd_a	
batc	h/lot specific datasheet fr	or this product in	lease use our online sear	ch tool at: bio-	rad-antibodies.com/datasheet	•

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M365749:200529'

Printed on 23 May 2025

© 2025 Bio-Rad Laboratories Inc | Legal | Imprint