

Datasheet: MCA749F BATCH NUMBER 1602

Description:	MOUSE ANTI GUINEA PIG CD4:FITC			
Specificity:	CD4			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Clone:	CT7			
Isotype:	lgG1			
Quantity:	100 TESTS			

Product Details

Applications	This product has been derived from testing wi communications from t information. For genera	er-reviewed publication of the second seco	ations or personal ndicated for further				
	rad-antibodies.com/pro		lo	Not Determined	Suggested Dilution		
	Flow Cytometry	•	10	Not Determined	Neat - 1/10		
	Where this antibody ha	Where this antibody has not been tested for use in a particular technique this does not					
	ng dilutions are given as y for use in their own						
Target Species	Guinea Pig						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	Fluorophore	Excitation Max	(nm) Ei	mission Max (nm)			
	FITC	490		525			
Preparation	Purified IgG prepared by affinity chromatography on Protein G.						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml						

Immunogen	Guinea pig peritoneal T-cells.
RRID	AB_322605
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.
Specificity	Mouse anti Guinea Pig CD4 antibody, clone CT7 recognizes the CD4 antigen present on T Helper/Inducer lymphocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole Guinea Pig peripheral blood.
References	 Tan, B.T. <i>et al.</i> (1985) Production of monoclonal antibodies defining guinea pig T-cell surface markers and a strain 13 la-like antigen: the value of immunohistological screening. Hybridoma. <i>4</i> (2): 115-24. Baker, D. <i>et al.</i> (1987) Changes in lymphocyte subsets after treatment with cyclophosphamide and during the development of contact sensitivity in the guinea pig. Int JImmunopharmacol. <i>9</i> (2): 175-83. Liversidge, J. & Forrester, J.V. (1988) Experimental autoimmune uveitis (EAU): immunophenotypic analysis of inflammatory cells in chorio retinal lesions. Curr Eye Res. <i>7</i> (12): 1231-41. Sterenberg, P.A. <i>et al.</i> (1991) Tumour rejection after adoptive transfer of line-10-immune spleen cells is mediated by two T cell subpopulations. Cancer Immunol Immunother. <i>34</i> (2): 103-10. Debout, C. <i>et al.</i> (1991) The Kurloff cell in estrogenized guinea pigs as a CT7+ 8BE6-CT6-MR-1- CT10- IgM- lymphocyte with natural killer activity. Nat Immun Cell Growth Regul. 10 (6): 327-35. Shang, S. <i>et al.</i> (2011) Activities of TMC207, rifampin, and pyrazinamide against Mycobacterium tuberculosis infection in guinea pigs. Antimicrob Agents Chemother. <i>55</i> (1): 124-31. Lacy, H.M. <i>et al.</i> (2011) Essential role for neutrophils in pathogenesis and adaptive immunity in <i>Chlamydia caviae</i> ocular infections. Infect Immun. <i>79</i> (5): 1889-97. Komori, T. <i>et al.</i> (2011) A Microbial Glycolipid Functions as a New Class of Target Antigen for Delayed-type Hypersensitivity. <i>J Biol Chem.</i> 286: 16800-6. Jeevan, A. <i>et al.</i> (2003) Differential expression of gamma interferon mRNA induced by attenuated and virulent Mycobacterium tuberculosis in guinea pig cells after <i>Mycobacterium bovis</i> BCG vaccination. Infect Immun. <i>71</i>: 354-64. Schleiss, M.R. <i>et al.</i> (2003) Procenceptual administration of an alphavirus replicon UL83 (pp65 homolog) vaccine induces humoral and cellular immunity and improves pregnancy outcome in the g

	 Hiromatsu, K. <i>et al.</i> (2002) Induction of CD1-restricted immune responses in guinea pigs by immunization with mycobacterial lipid antigens. J Immunol. 169: 330-9. Dascher, C. C. <i>et al.</i> (1999) Conservation of a CD1 multigene family in the guinea pig. J Immunol. 163: 5478-88. Rousseau, C. <i>et al.</i> (2003) Sulfolipid Deficiency Does Not Affect the Virulence of <i>Mycobacterium tuberculosis</i> H37Rv in Mice and Guinea Pigs Infect Immun. 71: 4684-90. Kramp, J.C. <i>et al.</i> (2011) The <i>in vivo</i> immunomodulatory effect of recombinant tumour necrosis factor-alpha in guinea pigs vaccinated with <i>Mycobacterium bovis</i> bacille Calmette-Guérin. Clin Exp Immunol. 165: 110-20. Chitano, P. <i>et al.</i> (2014) Ovalbumin sensitization of guinea pig at birth prevents the ontogenetic decrease in airway smooth muscle responsiveness. Physiol Rep. 2 (12)Dec 11 [Epub ahead of print]. Gupta, A. <i>et al.</i> (2012) Efficacy of <i>Mycobacterium indicus pranii</i> immunotherapy as an adjunct to chemotherapy for tuberculosis and underlying immune responses in the lung. PLoS One. 7 (7): e39215. Podell, B.K. <i>et al.</i> (2011) Increased severity of tuberculosis in Guinea pigs with type 2 diabetes-tuberculosis comorbidity. Am J Pathol. 184 (4): 1104-18. Shang, S. <i>et al.</i> (2011) Three protein cocktails mediate delayed-type hypersensitivity responses indistinguishable from that elicited by purified protein derivative in the guinea pig model of <i>Mycobacterium tuberculosis</i> infection. Infect Immun. 79 (2): 716-23. Jeavan A <i>et al.</i> (2013) Guinea pig skin, a model for epidermal cellular and molecular changes induced by UVR <i>in vivo</i> and <i>in vitro</i>: effects on <i>Mycobacterium bovis</i> Bacillus Calmette-Guérin vaccination. Photochem Photobiol. 89 (1): 189-98. Miszczyk, E. <i>et al.</i> (2014) Antigen-specific lymphocyte proliferation as a marker of immune response in guinea pigs with sustained <i>Helicobacter pylori</i> infection. <u>Acta Biochim Pol. 61 </u>
Storage	Store at +4°C for one month or at -20°C for longer.
	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.
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/MCA749F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

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	id.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 'M368876:200529'

Printed on 23 May 2025

© 2025 Bio-Rad Laboratories Inc | Legal | Imprint