

Datasheet: MCA749PE

Description:	MOUSE ANTI GUINEA PIG CD4:RPE
Specificity:	CD4
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CT7
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			

Where this antibody has not been tested for use in a particular technique 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	Guinea Pig		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
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		
Immunogen	Guinea pig peritoneal T-cells.		
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.		

References

1. Tan, B.T.G. *et al.* (1985) Production of monoclonal antibodies defining guinea pig T-cell surface markers and a strain 13 Ia-like antigen, the value of immunohistological screening. [Hybridoma 4: 115-124.](#)
2. Baker, D. *et al.* (1987) Changes in lymphocyte subsets after treatment with cyclophosphamide and during the development of contact sensitivity in the guinea pig. [Int. J. Immunopharmac. 9: 175-183.](#)
3. Liversidge, J. *et al.* (1988) Experimental autoimmune uveitis (EAU): Immunophenotypic analysis of inflammatory cells in chorio retinal lesions: [Current eye research 7: 1231-1240.](#)
4. Steerenburg, P.A. *et al.* (1991) Tumour rejection after transfer of line-10-immunity is mediated by two T-cell populations. [Cancer Immun. Immunother. 34: 103-110.](#)
5. Debout, C. *et al.* (1991) The Kurloff Cell in estrogenized guinea pigs as a CT7+ 8BE6-CT6-MR-1-CT10-IgM-Lymphocyte with natural killer activity. [Natural Immunity and Cell Growth Regulation 10: 327-335.](#)
6. Shang, S. *et al.* (2011) Activities of TMC207, rifampin, and pyrazinamide against Mycobacterium tuberculosis infection in guinea pigs. [Antimicrob Agents Chemother. 55 \(1\): 124-31.](#)
7. Lacy, H.M. *et al.* (2011) Essential role for neutrophils in pathogenesis and adaptive immunity in *Chlamydia caviae* ocular infections. [Infect Immun. 79 \(5\): 1889-97.](#)
8. Komori, T. *et al.* (2011) A Microbial Glycolipid Functions as a New Class of Target Antigen for Delayed-type Hypersensitivity. [J Biol Chem. 286: 16800-6.](#)
9. Jeevan, A. *et al.* (2003) Differential expression of gamma interferon mRNA induced by attenuated and virulent Mycobacterium tuberculosis in guinea pig cells after Mycobacterium bovis BCG vaccination. [Infect Immun. 71: 354-64.](#)
10. Schleiss, M.R. *et al.* (2007) Preconceptual administration of an alphavirus replicon UL83 (pp65 homolog) vaccine induces humoral and cellular immunity and improves pregnancy outcome in the guinea pig model of congenital cytomegalovirus infection. [J Infect Dis. 195: 789-98.](#)
11. Turner, O.C. *et al.* (2003) Immunopathogenesis of pulmonary granulomas in the guinea pig after infection with Mycobacterium tuberculosis. [Infect Immun. 71: 864-71.](#)
12. Wang, Y. *et al.* (2010) Local host response to chlamydial urethral infection in male guinea pigs. [Infect Immun. 78: 1670-81.](#)
13. Mishra, N.C. *et al.* (2010) Sulfur mustard induces immune sensitization in hairless guinea pigs. [Int Immunopharmacol. 10: 193-9.](#)
14. Hiromatsu, K. *et al.* (2002) Induction of CD1-restricted immune responses in guinea pigs by immunization with mycobacterial lipid antigens. [J Immunol. 169: 330-9.](#)
15. Dascher, C.C. *et al.* (1999) Conservation of a CD1 multigene family in the guinea pig. [J Immunol. 163: 5478-88.](#)
16. Rousseau, C. *et al.* (2003) Sulfolipid Deficiency Does Not Affect the Virulence of Mycobacterium tuberculosis H37Rv in Mice and Guinea Pigs [Infect Immun. 71: 4684-90.](#)
17. Kramp, J.C. *et al.* (2011) The in vivo immunomodulatory effect of recombinant tumour necrosis factor-alpha in guinea pigs vaccinated with Mycobacterium bovis bacille Calmette-Guérin. [Clin Exp Immunol. 165: 110-20.](#)
18. Chitano, P. *et al.* (2014) Ovalbumin sensitization of guinea pig at birth prevents the ontogenetic decrease in airway smooth muscle responsiveness. [Physiol Rep. 2 \(12\): .](#)
19. Gupta, A. *et al.* (2012) Efficacy of Mycobacterium indicus pranii immunotherapy as an adjunct to chemotherapy for tuberculosis and underlying immune responses in the lung. [PLoS One. 7 \(7\): e39215.](#)
20. Podell, B.K. *et al.* (2014) Increased severity of tuberculosis in Guinea pigs with type 2 diabetes: a model of diabetes-tuberculosis comorbidity. [Am J Pathol. 184 \(4\): 1104-18.](#)
21. Shang, S. *et al.* (2012) Drug treatment combined with BCG vaccination reduces disease reactivation in guinea pigs infected with Mycobacterium tuberculosis. [Vaccine. 30 \(9\): 1572-82.](#)
22. Yang H *et al.* (2011) Three protein cocktails mediate delayed-type hypersensitivity responses

indistinguishable from that elicited by purified protein derivative in the guinea pig model of Mycobacterium tuberculosis infection. [Infect Immun. 79 \(2\): 716-23.](#)

23. Jeevan A *et al.* (2013) Guinea pig skin, a model for epidermal cellular and molecular changes induced by UVR *in vivo* and *in vitro*: effects on *Mycobacterium bovis* Bacillus Calmette-Guérin vaccination. [Photochem Photobiol. 89 \(1\): 189-98.](#)

24. Mischczyk, E. *et al.* (2014) Antigen-specific lymphocyte proliferation as a marker of immune response in guinea pigs with sustained Helicobacter pylori infection. [Acta Biochim Pol. 61 \(2\): 295-303.](#)

Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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