

Datasheet: MCA749S

BATCH NUMBER 148492

Description:	MOUSE ANTI GUINEA PIG CD4
Specificity:	CD4
Format:	Con S/N
Product Type:	Monoclonal Antibody
Clone:	CT7
Isotype:	IgG1
Quantity:	0.25 ml

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	▪			1/10 - 1/100
Immunohistology - Frozen	▪			1/10 - 1/100
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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	Concentrated tissue Culture Supernatant - liquid
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃) 0.7% Bovine Serum Albumin
Immunogen	Guinea pig peritoneal T-cells.
RRID	AB_324593
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	<ol style="list-style-type: none"> 1. Tan, B.T. <i>et al.</i> (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 (2): 115-24. 2. 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 J Immunopharmacol. 9 (2): 175-83. 3. Liversidge, J. & Forrester, J.V. (1988) Experimental autoimmune uveitis (EAU): immunophenotypic analysis of inflammatory cells in chorio retinal lesions. Curr Eye Res. 7 (12): 1231-41. 4. Steerenberg, 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. 34 (2): 103-10. 5. 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. 6. Shang, S. <i>et al.</i> (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. <i>et al.</i> (2011) Essential role for neutrophils in pathogenesis and adaptive immunity in <i>Chlamydia caviae</i> ocular infections. Infect Immun. 79 (5): 1889-97. 8. Komori, T. <i>et al.</i> (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. <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. 71: 354-64. 10. Schleiss, M.R. <i>et al.</i> (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. <i>et al.</i> (2003) Immunopathogenesis of pulmonary granulomas in the guinea pig after infection with <i>Mycobacterium tuberculosis</i>. Infect Immun. 71: 864-71. 12. Wang, Y. <i>et al.</i> (2010) Local host response to chlamydial urethral infection in male guinea pigs. Infect Immun. 78: 1670-81. 13. Mishra, N.C. <i>et al.</i> (2010) Sulfur mustard induces immune sensitization in hairless guinea pigs. Int Immunopharmacol. 10: 193-9. 14. 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. 15. Dascher, C.C. <i>et al.</i> (1999) Conservation of a CD1 multigene family in the guinea pig. J Immunol. 163: 5478-88. 16. 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. 17. 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.

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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. 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 #10495 available at: <https://www.bio-rad-antibodies.com/SDS/MCA749S>
10495

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),

	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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'M368878:200529'

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