

Monoclonal Antibody to CD4 - PE

Alternate names:	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4, T4/Leu-3
Catalog No.:	SM587R
Quantity:	100 Tests
Background:	CD4 is a single chain transmembraneous glycoprotein (59 kDa) which belongs to the immunoglobulin superfamily. CD4 is present on a subset of T lymphocytes ("helper/inducer" T cells) and is also expressed at a lower level on monocytes, tissue macrophages and granulocytes. The antigen is involved in binding to MHC class II molecules. The intracellular domain of the antigen is associated with p56lck protein tyrosine kinase.
Host / Isotype:	Mouse / IgG1
Clone:	CT7
Immunogen:	Guinea Pig peritoneal T-cells. Remarks: Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.
Format:	State: Lyophilized purified IgG fraction Purification: Affinity chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% BSA Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with 1.0ml distilled water
Applications:	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes the CD4 antigen present on T Helper/Inducer lymphocytes. Species: Guinea Pig. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General 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. <i>Hybridoma</i> 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. <i>Int. J. Immunopharmac.</i> 9: 175 - 183. 3. Liversidge, J. et al. (1988) Experimental autoimmune uveitis (EAU): Immunophenotypic

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

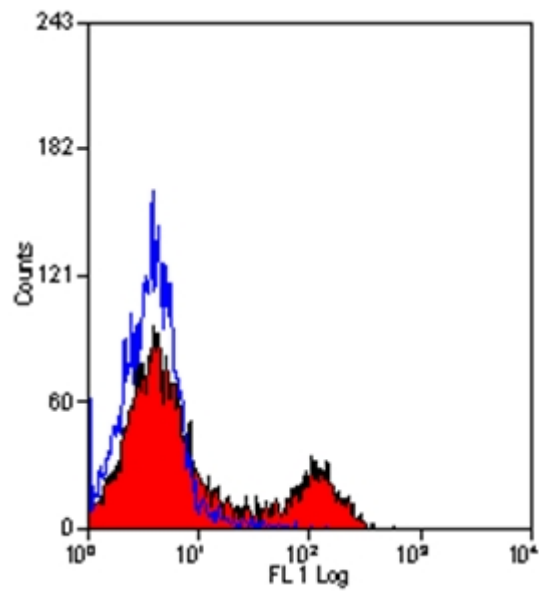
- analysis of inflammatory cells in chorio retinal lesions: *Current eye research* 7: 1231 - 1240.
4. Steerenburg, P.A. et al. (1991) Tumour rejection after transfer of line-10-immunity is mediated by two T-cell populations. *Cancer Immun. Immunother.* 34: 103 - 110.
 5. Debout, C. et al. (1991) The 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. (2010) The activity of TMC 207, rifampin, and pyrazinamide against *Mycobacterium tuberculosis* infection in guinea pigs. *Antimicrob Agents Chemother.* 2010 Oct 11. [Epub ahead of print]
 7. Lacy, H.M. et al. (2011) Essential Role for Neutrophils in Pathogenesis and Adaptive Immunity in *Chlamydia caviae* Ocular Infections. *Infect Immun.* Mar 14. [Epub ahead of print]
 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.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Pictures:



Staining of Guinea Pig spleen cells with Mouse anti Guinea Pig CD4 antibody RPE conjugated (SM587R)

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com