

**SM587F****Monoclonal Antibody to CD4 - FITC**

<b>Alternate names:</b>	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4, T4/Leu-3
<b>Quantity:</b>	100 Tests
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	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.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	CT7
<b>Immunogen:</b>	Guinea pig peritoneal T-cells. Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry: Neat - 1/10; Use 10µl of the suggested working dilution to label 10e6 cells or 100µl whole Guinea Pig peripheral blood. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD4 antigen present on T Helper/Inducer lymphocytes. <b>Species:</b> Guinea Pig. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Tan BT, Ekelaar F, Luirink J, Rimmelzwaan G, De Jonge AJ, Scheper RJ. 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> . 1985 Summer;4(2):115-24. PubMed PMID: 3891587. 2. Baker D, Karcher K, Antoniou AV, Turk JL, Tan BT, Scheper RJ. Changes in lymphocyte subsets after treatment with cyclophosphamide and during the development of contact sensitivity in the guinea pig. <i>Int J Immunopharmacol</i> . 1987;9(2):175-83. PubMed PMID: 2884193. 3. Liversidge J, Forrester JV. Experimental autoimmune uveitis (EAU): immunophenotypic analysis of inflammatory cells in chorio retinal lesions. <i>Curr Eye</i>

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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, Griveau AM, Izard J. 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.* 1991;10(6):327-35. PubMed PMID: 1787838.