OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

SM587 Monoclonal Antibody to CD4 - Supernatant

Alternate names: T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4, T4/Leu-3

Quantity: 0.25 ml

Concentration: 1.0 mg/ml

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. Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.

Format: **State:** Concentrated Tissue Culture Supernatant Containing 0.09% Sodium Azide and 1.0% BSA.

Applications: Immunohistochemistry on Frozen Sections: 1/10-1/100.
Flow Cytometry: 1/10-1/100.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises 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 or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

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. Hybridoma. 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. Int J Immunopharmacol. 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. Curr Eye Res. 1988 Dec;7(12):1231-41. PubMed PMID: 3229134.
4. 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.