

## Monoclonal Antibody to CD4 - FITC

<b>Alternate names:</b>	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4
<b>Catalog No.:</b>	AM08113FC-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 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>Uniprot ID:</b>	<a href="#">P79355</a>
<b>NCBI:</b>	<a href="#">NP_001009250.1</a>
<b>GeneID:</b>	<a href="#">493775</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	3-4F4
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. (Ref.1-3) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes Feline CD4 (Mr. 65 kDa) <b>Species:</b> Feline (Cat). 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. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Ackley, C.D., E.A. Hoover, and M.D. Cooper. 1990. Tissue Antigens 35:92-98. 2. Ackley, C.D., J.K. Yamamoto, N. Levy, N.C. Pedersen, and M.D. Cooper. 1990. J. Virol. 64:5652-5655. 3. Dean, G.A., S.L. Quackenbush, C.D. Ackley, M.D. Cooper, and E.A. Hoover. 1991. Vet. Immunol. Immunopathol 28:327-335.

Pictures:

**Immunofluorescent Staining:** Peripheral blood mononuclear cells from a healthy domestic Cat were double-stained with Mouse anti-Feline CD4-FITC and Mouse anti-Feline CD8-PE. Small lymphocytes were then gated and analyzed by two-color flow cytometry on a FACScan(TM) flow cytometry (BDIS, San Jose, CA). Amount Used: 1 µg/10e6 cells.

