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FITC-labeled Antibody to Mouse CD4
RAT MONOCLONAL

Catalog Number: AB-584
Quantity: 500 micrograms, 1 milligram
Format: Lyophilized
Host: Rat
Isotype: IgG
Clone: mCD4
Immunogen: Purified mouse LN CD4+ T cells

Background:

CD4 is a cell-surface glycoprotein found on the mature helper T cells and immature thymocytes, as well as on monocytes and macrophages. (Some cytotoxic T cells have CD4 protein as well.) Normally, about 65% of T cells in the blood are CD4+ (have CD4 protein protruding from their membrane). A mature T cell will either have CD4 or CD8, but not both. During one stage of development T cells develop CD4 and CD8 receptors, but they eventually are differentiated in the thymus and become more specialized.

Specificity and Preparation:

Rat anti-mouse CD4 is purified by ion exchange column. It is conjugated to FITC. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Reported to be effective for flow cytometry staining ($10 \mu\text{l}/10^6$ cells), immunohistochemistry, immunoblotting (western blot).

Reconstitute with H₂O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store at 4°C. DO NOT STORE FROZEN. The material may display diminished activity as a result of repeated freezing and thawing.

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