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Biotin-labeled Antibody to Mouse CD4
RAT MONOCLONAL

Catalog Number: AB-583
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 biotin. 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, and immunoblotting (western blot). Reconstitute with H₂O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. In lyophilized form, store at 4°C. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Antibody is stable two years lyophilized, one month in solution at 4°C.

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