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**Biotin-labeled Antibody to Human CD4**  
**MOUSE MONOCLONAL**

**Catalog Number:** AB-422  
**Quantity:** 500 micrograms  
**Format:** Lyophilized  
**Host:** Mouse  
**Isotype:** IgG2b  
**Clone:** hCD4  
**Immunogen:** Purified human PBL CD4+ T cells

**Background:**

CD4 is a cell-surface glycoprotein found on mature helper T-cells, immature thymocytes, monocytes, and macrophages. Some cytotoxic T-cells express CD4 as well. The T-cell population in normal blood is approximately 65% CD4+. A mature T-cell expresses either CD4 or CD8, but not both. During an early stage of development T-cells have both CD4 and CD8 receptors but are differentiated in the thymus.

**Specificity and Preparation:**

Mouse anti-human CD4 is conjugated to biotin and purified by ion exchange chromatography. The protein concentration is 1 mg/ml in PBS after reconstitution.

**Usage and Storage:**

Reported to be effective as a blocking and staining antibody. Blocks binding of HIV to CD4. For staining, use 10  $\mu$ l/10<sup>6</sup> cells. The titer for blocking T-cell activation should be determined by the investigator. Reconstitute with H<sub>2</sub>O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store lyophilized material at 4°C. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.

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