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**Biotinylated 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 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 with 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:**

Mouse Anti-Human CD4 is conjugated to biotin. Purified by ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution).

**Usage and Storage:**

Applications include blocking and staining antibody. Blocks binding of HIV to CD4. For staining, use 10  $\mu$ l/10<sup>6</sup> cells. Titer for blocking T cell activation should be determined by the investigator.

Reconstitute with H<sub>2</sub>O. Mix gently, wash the sides of the vial and wait 30-60 seconds before use.

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.