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Antibody to Human CD4
MOUSE MONOCLONAL

Catalog Number: AB-420
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 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 μ l/10⁶ cells. Titer for blocking T cell activation should be determined by the investigator.

Reconstitute with H₂O. 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.