Anti-Human CD4 Monoclonal Antibody (Biotin Conjugated)

Catalog No. MBS2533997
Reactivity Human
Storage Store at 4°C, Avoid freeze / thaw cycles
Applications FCM

**Important Note:**
Centrifuge before opening to ensure complete recovery of vial contents. This product is guaranteed up to 1 year from purchase.

**Product Information**
- **Conjugation:** Biotin
- **Buffer:** PBS with 0.09% NaN3, 0.2% BSA, PH7.2
- **Storage:** Keep as concentrated solution. Store at 4°C and protected from prolonged exposure to light. Do not freeze.
- **Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis (The amount of the reagent is suggested to be used ≤ 1.0 µg /10^6 cells in 100 µl.). Since applications vary, the appropriate dilutions must be determined for individual use.

**Product Characterization**
- **Clone No.:** OKT-4
- **Host:** Mouse
- **Isotype:** Mouse IgG2

**Background**
CD4, also known as T4, is a 55 kD single chain type I transmembrane glycoprotein expressed on most thymocytes, a subset of T cells, and monocytes/macrophages. CD4, a member of the Ig superfamily, recognizes antigens associated with MHC class II molecules and participates in cell-cell interactions, thymic differentiation, and signal transduction. CD4 acts as a primary receptor for HIV, binding to HIV gp120. CD4 has also been shown to interact with IL-16. The OKT4 antibody binds to the D3 domain of CD4 and does not block HIV binding.

**Illustration of Immunofluorescent Staining**
Human peripheral blood lymphocytes stained with Biotin anti-human CD4, followed by PE-SA and FITC anti-human CD3

!FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES!