**Human CD4 Fluorescein-conjugated Antibody**

Monoclonal Mouse IgG₂A Clone # 11830  
Catalog Number: FAB3791F  
100 Tests, 25 Tests

### DESCRIPTION

**Species Reactivity**
Human

**Specificity**
Detects human CD4 in direct ELISAs.

**Source**
Monoclonal Mouse IgG₂A Clone # 11830

**Purification**
Protein A or G purified from hybridoma culture supernatant

**Immunogen**
Recombinant Human CD4, Extracellular Domain

**Accession #**
P01730

**Conjugate**
Fluorescein

**Excitation Wavelength:** 488 nm

**Emission Wavelength:** 515-545 nm (FITC)

**Formulation**
Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>10 µL/10⁶ cells</td>
</tr>
</tbody>
</table>

**Data**

**Flow Cytometry**

Detection of CD4 in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with (A) Mouse Anti-Human CD4 Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB3791F) or (B) Mouse IgG₂A Fluorescein Isotype Control (Catalog # IC003F) and Mouse Anti-Human CD3ε APC-conjugated Monoclonal Antibody (Catalog # FAB100A). View our protocol for Staining Membrane-associated Proteins.

### PREPARATION AND STORAGE

**Shipping**
The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage**
Protect from light. Do not freeze.

- 12 months from date of receipt, 2 to 8 °C as supplied.

### BACKGROUND

CD4 is a type I membrane glycoprotein belonging to the immunoglobulin superfamily. It is expressed predominantly on thymocytes and a subset of mature T lymphocytes. CD4 functions in collaboration with the T cell receptor in the recognition of peptide antigens that are presented by class II major histocompatibility complexes. CD4 has also been shown to be a coreceptor of HIV entry and specifically binds gp120, the external envelope glycoprotein of HIV.