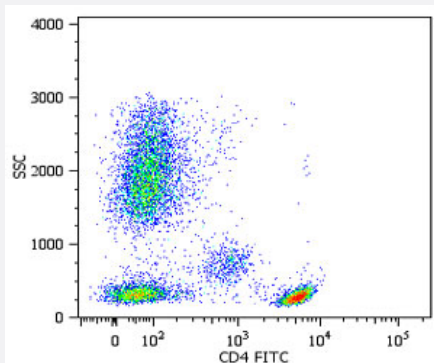


# CD4 monoclonal antibody, clone MEM-241

Catalog # MAB3837      Size 100 ug

## Applications



### Flow Cytometry

Surface staining of human peripheral blood cells with CD4 monoclonal antibody, clone MEM-241 (Cat # MAB3837) conjugated with FITC.

## Specification

|                             |                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Mouse monoclonal antibody raised against partial recombinant CD4.                                                                                                                             |
| <b>Immunogen</b>            | Recombinant Fc fusion protein corresponding to 2 N-terminus domains of human CD4.                                                                                                             |
| <b>Host</b>                 | Mouse                                                                                                                                                                                         |
| <b>Theoretical MW (kDa)</b> | 55                                                                                                                                                                                            |
| <b>Reactivity</b>           | Human                                                                                                                                                                                         |
| <b>Specificity</b>          | This antibody recognizes CD4 antigen, a 55 KDa transmembrane glycoprotein expressed on a subset of T lymphocytes (helper T-cells) and also on monocytes, tissue macrophages and granulocytes. |
| <b>Form</b>                 | Liquid                                                                                                                                                                                        |
| <b>Isotype</b>              | IgG1                                                                                                                                                                                          |
| <b>Recommend Usage</b>      | Flow Cytometry (1 ug/mL)<br>Western Blot (1-2 ug/mL)<br>The optimal working dilution should be determined by the end user.                                                                    |
| <b>Storage Buffer</b>       | In PBS, pH 7.4 (0.09% sodium azide)                                                                                                                                                           |

**Storage Instruction**

Store at 4°C. Do not freeze.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot
- Flow Cytometry

Surface staining of human peripheral blood cells with CD4 monoclonal antibody, clone MEM-241 (Cat # MAB3837) conjugated with FITC.

## Gene Info — CD4

**Entrez GeneID**[920](#)**Gene Name**

CD4

**Gene Alias**

CD4mut

**Gene Description**

CD4 molecule

**Omim ID**[186940](#)**Gene Ontology**[Hyperlink](#)**Other Designations**

CD4 antigen|CD4 antigen (p55)|CD4 receptor

## Publication Reference

- [CD molecules 2006--human cell differentiation molecules.](#)

Zola H, Swart B, Banham A, Barry S, Beare A, Bensussan A, Bousmell L, D Buckley C, Buhring HJ, Clark G, Engel P, Fox D, Jin BQ, Macardle PJ, Malavasi F, Mason D, Stockinger H, Yang X.

Journal of Immunological Methods 2007 Jan; 319(1-2):1.

- [LIME: a new membrane Raft-associated adaptor protein involved in CD4 and CD8 coreceptor signaling.](#)

Brdickova N, Brdicka T, Angelisova P, Horvath O, Spicka J, Hilgert I, Paces J, Simeoni L, Kliche S, Merten C, Schraven B, Horejsi V.

The Journal of Experimental Medicine 2003 Nov; 198(10):1453.

Application: Func, Human, Peripheral blood T cells

- [Cell surface receptors, virus entry and tropism of primate lentiviruses.](#)

Clapham PR, McKnight A.

The Journal of General Virology 2002 Aug; 83(Pt 8):1809.

## Pathway

- [Antigen processing and presentation](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Hematopoietic cell lineage](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)

## Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Arthritis](#)
- [Asthma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)

- [Hematologic Diseases](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Pregnancy Complications](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Viremia](#)
- [Vitiligo](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)