# CD4 monoclonal antibody, clone RFT4 (Cy5)

Catalog # MAB6017 Size 100 Reactions

## Specification

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|---|---|
| **Product Description** | Mouse monoclonal antibody raised against native CD4. |
| **Immunogen** | Native purified CD4 from human thymocytes and E-rosetted lymphocytes. |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Specificity** | Specificity human CD4 |
| **Form** | Liquid |
| **Conjugation** | Cy5 |
| **Isotype** | IgG1 |
| **Recommend Usage** | Flow Cytometry (10 ul/$10^6$ cells)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.09% sodium azide) |
| **Storage Instruction** | Store in the dark at 4°C. Do not freeze.<br>Avoid prolonged exposure to light.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Frozen sections)
- Flow Cytometry
- Immunoprecipitation

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## Gene Info — CD4

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|---|---|
| **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


- The two membrane proximal domains of CD4 interact with the T cell receptor.

  Vignali DA, Carson RT, Chang B, Mittler RS, Strominger JL.

  The Journal of Experimental Medicine 1996 May; 183(5):2097.

- The CD4 molecule. Roles in T lymphocytes and in HIV disease. Introduction.

  Littman DR.

  Curr Top Microbiol Immunol 1996 Jan; 205:v.

- Molecular recognition of antigen involves lattice formation between CD4, MHC class II and TCR molecules.

  Sakihama T, Smolyar A, Reinherz EL.

  Immunology Today 1995 Dec; 16(12):581.


## Pathway

- Antigen processing and presentation
- Cell adhesion molecules (CAMs)
- Hematopoietic cell lineage
- Primary immunodeficiency

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- 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

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- Urinary Bladder Neoplasms
- Viremia
- Vitiligo
- Waldenstrom Macroglobulinemia
- Werner syndrome

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