

## Datasheet for 200-302-M63

**CD4 Fluorescein Antibody****Overview**

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-CD4 (MOUSE) Monoclonal Antibody Fluorescein Conjugated - 200-302-M63 |
| <b>Item No.:</b>     | 200-302-M63                                                               |
| <b>Size:</b>         | 500 µL                                                                    |
| <b>Applications:</b> | FC                                                                        |
| <b>Reactivity:</b>   | Human                                                                     |
| <b>Host Species:</b> | Mouse                                                                     |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | CD4 is an Immunoglobulin Superfamily protein and an accessory protein for MHC class-II antigen/ T-cell receptor interaction. It may regulate T-cell activation. It plays a more general role in mediating cell recognition events than merely those of cellular immune response. The T4 molecule serves as a receptor for the human immunodeficiency virus. A Type I membrane protein, it is expressed on T lymphocytes, B-cells, macrophages, and granulocytes. It is also expressed in a developmentally regulated manner in specific regions of the brain. |
| <b>Synonyms:</b>     | T-cell surface glycoprotein CD4, T-cell surface antigen T4/Leu-3, CD4, FITC anti-human CD4, RPA-T4, FITC, T4                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host Species:</b> | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Conjugate:</b>    | Fluorescein (FITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clone ID:</b>     | RPA-T4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>F/P Ratio:</b>    | 2-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Target Details**

|                    |       |
|--------------------|-------|
| <b>Gene Name:</b>  | CD4   |
| <b>Reactivity:</b> | Human |

|                            |                                                                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen Type:</b>     | Other                                                                                                                                                                                                                                                               |
| <b>Immunogen:</b>          | Anti-CD4 Antibody (Monoclonal) was produced by repeated immunizations with PHA-stimulated human peripheral blood mononuclear cells (PBMC).                                                                                                                          |
| <b>Purity/Specificity:</b> | Fluorescein conjugated CD4 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against human CD4. Reactivity is observed against human CD4 and chimpanzee. Cross reactivity with CD4 from other sources has not been tested. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P01730</a></li><li>• <a href="#">NCBI - NP_000607.1</a></li><li>• <a href="#">GenelD - 920</a></li></ul>                                                                                            |

## Application Details

|                             |                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | FC                                                                                                                                                                                |
| <b>Application Note:</b>    | Anti-CD4 has been tested in Flow Cytometry (Cell Surface) and is useful for Immunofluorescence. Researchers should determine optimal titers for applications that are not stated. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                   |
| <b>FC:</b>                  | 10 $\mu$ L/10 <sup>6</sup> cells (0.1 $\mu$ g)                                                                                                                                    |
| <b>IF:</b>                  | User Optimized                                                                                                                                                                    |

## Formulation

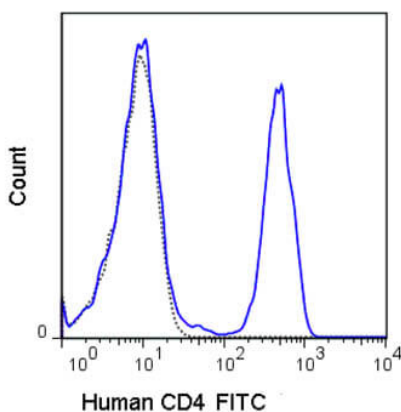
|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 0.2 mg/mL by UV absorbance at 280 nm                    |
| <b>Buffer:</b>         | 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.09% (w/v) Sodium Azide                                |
| <b>Stabilizer:</b>     | 0.1% Gelatin                                            |

## Shipping & Handling

|                            |                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                           |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive. |

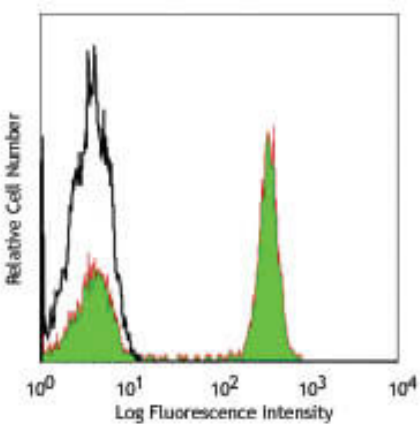
**Expiration:** Expiration date is six (6) months from date of receipt.

## Images



### Flow Cytometry

Flow Cytometry of Mouse anti-HUMAN CD4 antibody  
 Fluorescein conjugated. Cells:  $10^6$  Human peripheral  
 blood lymphocytes. Stimulation: none. Antibody: (GRAY)  
 1 $\mu$ g FITC Mouse isotype control; (BLUE) Fluorescein Anti-CD3  
 mouse secondary antibody using 5  $\mu$ l (1 $\mu$ g).

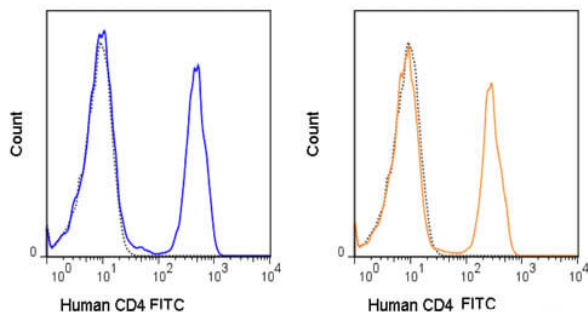


### Flow Cytometry

Flow Cytometry of Mouse anti-HUMAN CD3 antibody  
 Fluorescein conjugated. Cells:  $10^6$  Human peripheral  
 blood lymphocytes. Stimulation: none. Antibody: (Black)  
 FITC Mouse isotype control; (Green) Fluorescein Anti-CD3  
 mouse secondary antibody using 5  $\mu$ l.

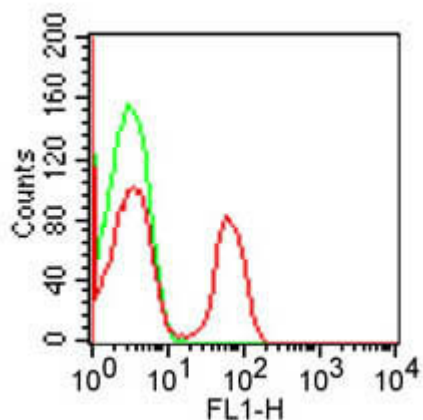
### Flow Cytometry

Flow Cytometry of Mouse anti-HUMAN CD3 antibody  
 Fluorescein conjugated. Cells:  $10^6$  Human peripheral  
 blood lymphocytes. Stimulation: none. Antibody: (BLUE)  
 Rockland Fluorescein Anti-CD3 mouse secondary antibody,  
 (ORANGE) Fluorescein Anti-CD3 mouse control antibody.



### Flow Cytometry

Cell Surface Flow Cytometry of Mouse anti-HUMAN CD4  
 antibody Fluorescein conjugated. Cells:  $10^6$  human PBMC.  
 Propidium iodide negative lymphocyte population gated for  
 analysis. Stimulation: none. Antibody: (GREEN) isotype  
 control antibody; (RED) Fluorescein Anti-CD4 mouse  
 secondary antibody using 10  $\mu$ l (0.1  $\mu$ g).



## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.