

## Datasheet for 200-526-M73

### CD25 APC Antibody

#### Overview

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-CD25 (RAT) Allophycocyanin Conjugated Monoclonal Antibody - 200-526-M73 |
| <b>Item No.:</b>     | 200-526-M73                                                                  |
| <b>Size:</b>         | 100 µg                                                                       |
| <b>Applications:</b> | FC                                                                           |
| <b>Reactivity:</b>   | Mouse                                                                        |
| <b>Host Species:</b> | Rat                                                                          |

#### Product Details

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | CD25 is a 55KDa transmembrane glycoprotein consisting of a heavily glycosylated extracellular domain, a transmembrane region and a short cytoplasmic tail. It is expressed during early stages of thymocytes development and in activated CD4+ memory T-lymphocytes. CD25 heterodimerizes with IL2R-beta and IL-2R gamma and forms the tripartite high affinity IL-2 receptor complex. It increases the specificity and affinity of IL-2 receptor complex for IL-2 ligand and is necessary for receptor clustering required for augmentation of IL-2 signaling. Mutations in CD25 result in severe immunodeficiency. |
| <b>Synonyms:</b>     | Interleukin-2 receptor subunit alpha, IL-2 receptor subunit alpha, IL-2-RA, IL-2R subunit alpha, IL2-RA, TAC antigen, p55, CD25 Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Host Species:</b> | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Conjugate:</b>    | Allophycocyanine (APC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Clone ID:</b>     | PC61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Format:</b>       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>F/P Ratio:</b>    | 1-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### Target Details

|                    |       |
|--------------------|-------|
| <b>Gene Name:</b>  | Il2r  |
| <b>Reactivity:</b> | Mouse |

|                            |                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen Type:</b>     | Other                                                                                                                                                                                                                                                        |
| <b>Immunogen:</b>          | Anti-CD25 Antibody (Monoclonal) was produced by repeated immunizations with IL-2-dependent cytolytic mouse T-cell clone B6.1.                                                                                                                                |
| <b>Purity/Specificity:</b> | Allophycocyanin conjugated CD25 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against mouse CD25. Reactivity is observed against mouse CD25. Cross reactivity with CD25 from other sources has not been tested. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P01590</a></li><li>• <a href="#">NCBI - NP_032393.3</a></li><li>• <a href="#">GenelD - 16184</a></li></ul>                                                                                   |

## Application Details

|                             |                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | FC                                                                                                                        |
| <b>Application Note:</b>    | Anti-CD25 is tested for Flow Cytometry. 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>                  | 0.1-0.5 µg/1x10 <sup>6</sup> cells                                                                                        |

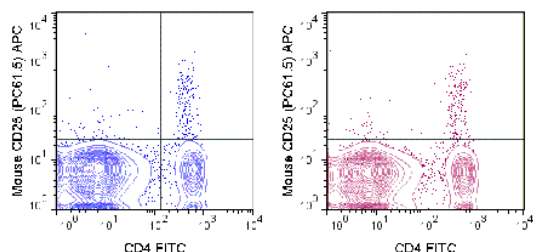
## Formulation

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <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

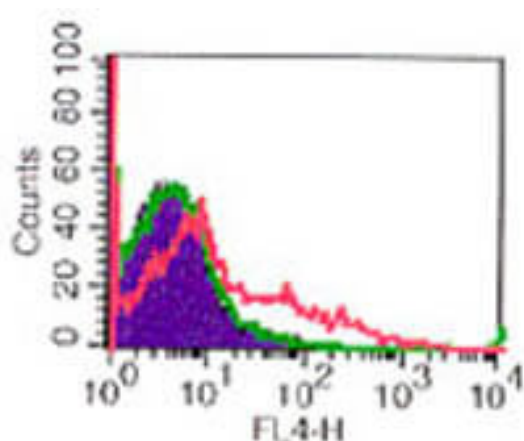
|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                   |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE. |
| <b>Expiration:</b>         | Expiration date is six (6) months from date of receipt.                                                                                                                                                                                                   |

## Images



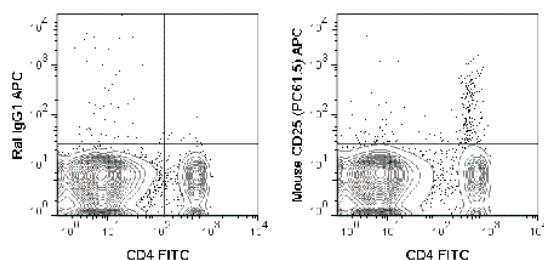
### Flow Cytometry

Flow Cytometry of Rat anti-MOUSE CD25 antibody Allophycocyanin conjugated. Cells:  $10^6$  C57BL/6 mouse splenocytes. Stimulation: none. Antibody: Anti-Mouse CD4 FITC and; (LEFT) Rockland Allophycocyanin Anti-CD25 secondary antibody using 0.125  $\mu$ g; (RIGHT) APC Anti-CD25 secondary antibody control.



### Flow Cytometry

Flow Cytometry of Rat anti-MOUSE CD25 antibody Allophycocyanin conjugated. Cells:  $10^6$  mouse splenocytes. (Shaded area cells without antibody). Stimulation: ConA stimulated. Antibody: (GREEN) isotype control antibody; (RED) Allophycocyanin Anti-CD25 rat secondary antibody using 0.1  $\mu$ g.



### Flow Cytometry

Flow Cytometry of Rat anti-MOUSE CD25 antibody Allophycocyanin conjugated. Cells:  $10^6$  C57BL/6 mouse splenocytes. Stimulation: none. Antibody: (LEFT) APC Rat IgG1 0.125 $\mu$ g; (RIGHT) Allophycocyanin Anti-CD25 secondary antibody using 0.125  $\mu$ 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.