



## CD25 Antibody [PC61.5] (APC)

CATALOG NUMBER: 76-519

### Specifications

|                             |   |
|-----------------------------|---|
| <b>SPECIES REACTIVITY:</b>  | Mouse   |
| <b>TESTED APPLICATIONS:</b> | FACS  |
| <b>USER NOTE:</b>           | Optimal dilutions for each application to be determined by the researcher.  |
| <b>SPECIFICITY:</b>         | The PC61.5 antibody specifically reacts with mouse CD25, the 55 kDa low-affinity Interleukin-2 Receptor alpha chain (IL-2R alpha), expressed on early progenitors of T and B lineage, and on B and T cells. |
| <b>HOST SPECIES:</b>        | Rat   |

### Properties

|                            |  |
|----------------------------|--|
| <b>PURIFICATION:</b>       | The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product. |
| <b>PHYSICAL STATE:</b>     | liquid   |
| <b>BUFFER:</b>             | Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.               |
| <b>CONCENTRATION:</b>      | 0.2 mg/mL  |
| <b>STORAGE CONDITIONS:</b> | The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. |
| <b>CLONALITY:</b>          | Monoclonal   |
| <b>ISOTYPE:</b>            | Rat IgG1, lambda   |
| <b>CONJUGATE:</b>          | APC  |

### Additional Info

|                         |                          |
|-------------------------|--------------------------|
| <b>ALTERNATE NAMES:</b> | CD25, Il2r, Ly-43, Il2ra |
| <b>OFFICIAL SYMBOL:</b> | Il2ra                    |
| <b>GENE ID:</b>         | 16184                    |

### Background

|                    |  |
|--------------------|--|
| <b>BACKGROUND:</b> | The PC61.5 antibody specifically reacts with mouse CD25, the 55 kDa low-affinity Interleukin-2 Receptor alpha chain (IL-2R alpha), expressed on early progenitors of T and B lineage, and on B and T cells. Together with CD122 (IL-2 Receptor beta) and CD 132 (IL-2 Receptor gamma, the common gamma chain), CD25 forms high-affinity receptor complexes for IL-2. Resting B and T cells and natural killer cells do not express IL-2Ralpha. Cd25 is also expressed on the dendritic cells, and it enhances lymphocyte differentiation and activation. The PC61.5 antibody block the binding of IL-2 to both high-affinity and low-affinity receptors. |
| <b>REFERENCES:</b> | <p>1) Hayashi, T., Hasegawa, K., Adachi, C. (2005). Elimination of CD4+ CD25+ T cell accelerates the development of glomerulonephritis during the preactive phase in autoimmune-prone female NZB× NZW F1 mice. International journal of experimental pathology, 86(5), 289-296.</p> <p>2) Lowenthal, J. W., Tougne, C., MacDonald, H. R., Smith, K. A., Nabholz, M. (1985). Antigenic stimulation regulates the expression of IL 2 receptors in a cytolytic T lymphocyte clone. The Journal of Immunology, 134(2), 931-939.</p> <p>3) Huang, B., Zhao, J., Shen, S., Li, H., He, K. L., Shen, G. X., ... Feng, Z. H. (2007). Listeria monocytogenes</p>  |

**FOR RESEARCH USE ONLY**

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