



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

CATALOG NUMBER: 76-514

### 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>	PE

### 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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