

# Anti-Mouse CD25 PerCP-Cyanine5.5

Catalog Number: 07312-70

RUO: For Research Use Only. Not for use in diagnostic procedures.

## **Product Information**

Clone: PC61.5

Format/Conjugate: PerCP-Cyanine5.5

Concentration: 0.2 mg/mL

Reactivity: Mouse Laser: Blue (488nm) Peak Emission: 695nm Peak Excitation: 482nm

Filter: 695/40

**Brightness (1=dim,5=brightest):** 3

Isotype: Rat IgG1, lambda

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

## **Description**

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  $\gamma c$ , 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-2R $\alpha$ . Cd25 is also expressed on the dendritic cells, and it enhances lymphocyte differentiation and activation.

The PC61.5 antibody blocks the binding of IL-2 to both high-affinity and low-affinity receptors.

## **Preparation & Storage**

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

## **Application Notes**

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is  $\leq 0.25$  ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

## References

- 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.
- 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.
- 3. Huang, B., Zhao, J., Shen, S., Li, H., He, K. L., Shen, G. X., ... Feng, Z. H. (2007). Listeria monocytogenes promotes tumor growth via tumor cell toll-like receptor 2 signaling.; Cancer Research,; 67(9), 4346-4352.