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Technical Data Sheet

Anti-Mouse CD25 FITC

Catalog Number :07312-50

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

Product Information

Clone: PC61.5

Format/Conjugate: FITC

Concentration: 0.5 mg/mL

Reactivity: Mouse

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

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 α chain (IL-2R α), expressed on early progenitors of T and B lineage, and on B and T cells. Together with CD122 (IL-2 Receptor β) and CD 132 (IL-2 Receptor γc, 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-2Rα. 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 ≤0.125 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.

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