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Technical Data Sheet

Anti-Human CD25 PE

Catalog Number :07311-60

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

Product Information

Clone: BC96

Format/Conjugate: PE

Concentration: 5 uL (0.06 ug)/test

Reactivity: Human

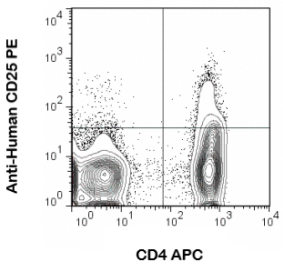
Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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



Human peripheral blood lymphocytes were stained with PE BC96 and APC OKT4

Isotype: Mouse IgG1, kappa

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 BC96 monoclonal antibody specifically reacts with the 55 kDa type I transmembrane glycoprotein known as the interleukin-2 receptor α (IL-2R α, also known as CD25). CD25 is expressed by the early progenitors of T and B lymphocytes lineage, and by activated mature T and B lymphocytes. CD25 is a low affinity interleukin-2 receptor, but its association with the IL-2 receptor β chain (CD122) and the common γ chain (CD 132) results in a high affinity IL-2R complex. CD25 plays an important role in B and T cell proliferation, differentiation, and activation.

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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

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2. Zhang, B., Zhang, X., Tang, F. L., Zhu, L. P., Liu, Y., Lipsky, P. E. (2008). Clinical significance of increased CD4+ CD25− Foxp3+ T cells in patients with new-onset systemic lupus erythematosus.;Annals of the rheumatic diseases,67(7), 1037-1040.

3. Chapel, A., Bensussan, A., Vilmer, E., Dormont, D. (1992). Differential human immunodeficiency virus expression in CD4+ cloned lymphocytes: from

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