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Technical Data Sheet

Anti-Human CD127 PE

Catalog Number :19321-60

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

Product Information

Clone: RDR5

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

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 RDR5 monoclonal antibody specifically reacts with human CD127, a 60-90 kDA type I transmembrane glycoprotein also known as the IL-7 receptor alpha chain. CD127 binds with CD132 (gamma c) to forms the IL-7 receptor that is expressed on mature T cells and immature B cells. Since CD127 expression is downregulated in Treg cells, it can be used as a marker for differentiating them from common T cells. The binding of the RDR5 antibody can be blocked by pre-incubating the cells with human IL-7.

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

1.Corcoran, A. E., Smart, F. M., Cowling, R. J., Crompton, T., Owen, M. J., Venkitaraman, A. R. (1996). The interleukin-7 receptor alpha chain transmits distinct signals for proliferation and differentiation during B lymphopoiesis.;The EMBO journal,;15(8), 1924.

2. Lim, H. W., Kim, C. H. (2007). Loss of IL-7 receptor α on CD4+ T cells defines terminally differentiated B cell-helping effector T cells in a B cell-rich lymphoid tissue.;The Journal of Immunology,;179(11), 7448-7456.

3. Goodwin, R. G., Friend, D., Ziegler, S. F., Jerzy, R., Falk, B. A., Gimpel, S., ... Park, L. S. (1990). Cloning of the human and murine interleukin-7 receptors: demonstration of a soluble form and homology to a new receptor superfamily.Cell,;60(6), 941-951.

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