

Anti-Mouse CD127/IL7Ra-174Yb

Catalog: 3174013B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Reactivity: Mouse

Clone: A7R34

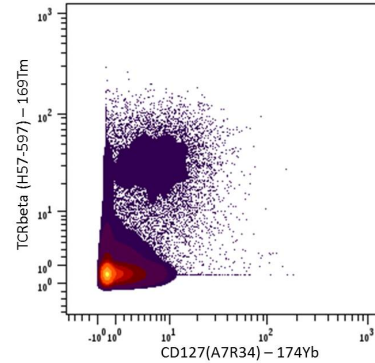
Isotype: IgG2a

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



C57BL/6 mouse splenocytes stained with 169Tm-anti-TCRbeta(H57-597) and 174Yb-anti-CD127(A7R34). Lymphocytes are displayed in the analysis.

Description

CD127 (IL-7Ra) is a 75-80 kDa type I glycoprotein that combines with CD132 (common γ chain) to form a receptor for the multifunctional cytokine IL-7. CD127 is expressed at various stages during B and T cell development and the majority of resting peripheral T cells. Furthermore, CD127 is expressed at reduced levels on regulatory T (Treg) cells, and enables identification of the most highly-suppressive CD4+CD25+Foxp3+CD127^{lo} Tregs. IL-7 is indispensable for lymphocyte development, homeostatic proliferation of peripheral T-cells and the regulation of T cell receptor (TCR) rearrangement in gamma delta T cells.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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