

IL7R protein-coupled magnetic MicroBeads

Cat. No. IL7R-495M Lot. No. (See product label)

SPECIFICATION

Species Human

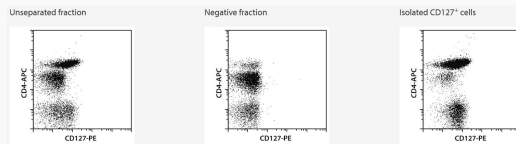
Capacity for 1×10⁹ total cells

Background

CD127, the α-chain of the IL-7 receptor, is a type I membrane glycoprotein. Signaling of IL-7 through the IL-7R requires both IL-7Rα and the common cytokine gamma chain (γc).¹ CD127 can be identified on immature B cells through the early pre-B stage, on thymocytes, and on most mature T cells with transient down-regulation upon activation.^{2,3} On regulatory T cells CD127 is absent⁴ and its expression is inversely correlated with FoxP3 expression and suppressive function.^{5,6} CD127 is also used by thymic stromal derived lymphopoietin (TSLP) as part of a complex. Human regulatory T cells can be isolated, for example, by using the CD4⁺CD25⁺CD127^{dim/-} Regulatory T Cell Isolation Kit, human.

Analysis

CD127⁺ cells were isolated from human PBMCs using the CD127 MicroBead Kit, an MS Column, and a MiniMACS Separator. Cells were fluorescently stained with CD4 (VIT4)-FITC and CD127-PE and analyzed by using the MACSQuant Analyzer.



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