

# IL7R protein-coupled magnetic MicroBeads

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

## SPECIFICATION

### Product Overview

**Species** Human

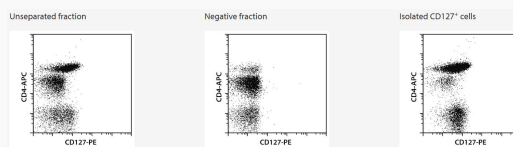
**Capacity** for  $1 \times 10^9$  total cells

### Background

CD127, the  $\alpha$ -chain of the IL-7 receptor, is a type I membrane glycoprotein. Signaling of IL-7 through the IL-7R requires both IL-7R $\alpha$  and the common cytokine gamma chain ( $\gamma_c$ ).<sup>1</sup> 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.<sup>2,3</sup> On regulatory T cells CD127 is absent<sup>4</sup> and its expression is inversely correlated with FoxP3 expression and suppressive function.<sup>5,6</sup> 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+CD127dim/- 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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