

## CD137 protein-coupled magnetic MicroBeads

Cat. No. TNFRSF9-97M Lot. No. (See product label)

### SPECIFICATION

**Species** Human

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

**Background**

CD137-PE recognizes the CD137 (4-1BB) antigen, a 30 kDa glycoprotein of the tumor necrosis factor (TNF) receptor superfamily. CD137 is mainly expressed on activated CD4+ and CD8+ T cells, activated B cells, and on natural killer cells, but can also be found on resting monocytes and dendritic cells. As a costimulatory molecule CD137 is involved in the activation and survival of CD4+ or CD8+ T cells, and NK cells.

Recently, CD137 has been described to be a suitable marker for antigen-specific activation of human CD8+ T cells, as CD137 is not expressed on resting CD8+ T cells and its expression is reliably induced after 24 hours of stimulation. CD137+ cells are indirectly magnetically labeled with CD137-PE and Anti-PE MicroBeads. For the isolation of activated antigen-specific CD8+ T cells, the CD137 MicroBead Kit can be combined with the CD8+ T Cell Isolation Kit.

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