

CD28 protein-coupled magnetic MicroBeads

Cat. No. CD28-503M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Capacity for 1×10^9 total cells

Background

The CD28+ cells are indirectly magnetically labeled with CD28-PE and Anti-PE MicroBeads.

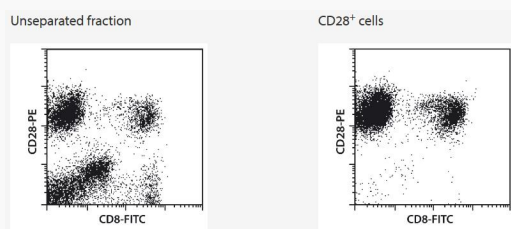
The CD28 antigen is a type I trans-membrane protein, highly expressed on most CD4+ T cells, many CD8+ T cells, and on malignant plasma cells (myeloma cells). Ligation of CD28 with CD80 (B7-1) or CD86 (B7-2) on target cells provides a critical costimulatory signal for T cell activation. Blockade of CD28-B7 interaction leads to an inhibition of immune responses both in vivo and in vitro.

Application

The CD28 MicroBead Kit was developed for the isolation of CD28+ cells from PBMCs, e.g., for phenotypical or functional characterization.

CD28+ T cell subsets can be isolated in combination with kits for untouched T cell isolation, e.g., the CD4+ T Cell Isolation Kit or the CD8+ T Cell Isolation Kit.

Analysis



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CD28+ cells were fluorescently and magnetically labeled using the CD28 MicroBead Kit. Labeled cells were separated from human PBMCs using an MS Column and a MiniMACS Separator. Cells were additionally stained with CD8-FITC.