

CD45 protein-coupled magnetic MicroBeads

Cat. No. CD45-7049M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Capacity for 5×10^8 total cells

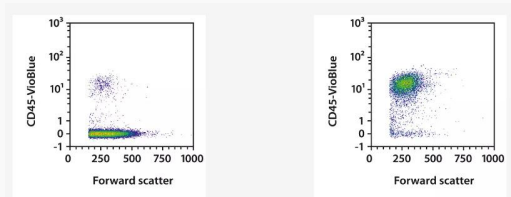
Background

The CD45 (TIL) MicroBead Kit has been developed for the isolation of CD45+ tumor-infiltrating leukocytes (TILs) from single-cell suspensions of solid human tumors as well as xenotransplanted tumors of mice with a humanized immune system. The CD45 antigen is expressed on all cells of hematopoietic origin except erythrocytes and platelets. The REAlease CD45 (TIL) MicroBead Kit is an indirect magnetic labeling system that allows to obtain cells free of MicroBeads and the REAlease Biotin Complex.

Application

Positive selection of CD45+ leukocytes from solid human tumors.
Isolation of specific CD45+ tumor-infiltrating leukocyte subsets. The selected CD45+ cell population can be sorted according to a second marker of interest, for example: CD19, CD4, CD8, CD11c, CD56, or CD207.
Isolation of CD45+ tumor-infiltrating leukocytes which need to be label-free.

Analysis



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Example of a separation using the CD45 (TIL) MicroBead Kit. A) A human ovarian carcinoma sample was dissociated using the gentleMACS Octo Dissociator with Heaters in combination with the Tumor Dissociation Kit, human. CD45+ TILs were isolated from the single-cell suspension using the CD45 (TIL) MicroBead Kit, LS Columns, and a MidiMACS Separator. Cells were fluorescently stained with CD45-VioBlue and analyzed by flow cytometry using the MACSQuant Analyzer X. Cell debris and dead cells were excluded from the analysis based on scatter signals and 7-AAD fluorescence. B) The efficient removal of all labels was shown by using Anti-Biotin-APC to analyze the cells by flow cytometry for the presence of REAlease Biotin Complex. Directly after isolation, the cells showed staining of biotin ("MicroBead-free CD45+ cells"), whereas the label-free CD45+ cells after the REAlease Biotin Complex release were negative for biotin similar to the non-labeled cells before separation.