

CD71 protein-coupled magnetic MicroBeads

Cat. No. CD71-491M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Capacity for 1×10^9 total cells

Background

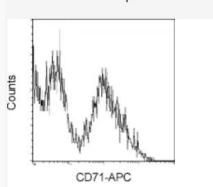
The CD71 antigen is also known as the transferrin receptor, which is essential for iron transport into proliferating cells. It is expressed on mesenchymal stromal cells (MSCs) in bone marrow, on activated T and B lymphocytes, macrophages, and on all proliferating cells. It is up-regulated on lymphocytes during proliferative responses to antigens or mitogens but is not expressed on resting lymphocytes. Furthermore, CD71 is present on reticulocytes and erythroid progenitors in fetal liver, cord blood, and peripheral blood, but is downregulated as these cells differentiate into mature erythrocytes.

Application

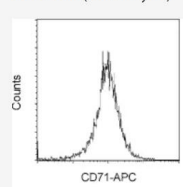
Enrichment of fetal early erythroid cells from maternal peripheral blood
Isolation of hematopoietic precursor cells committed to the erythroid lineage (BFU-E) when used in combination with the CD34 MultiSort Kit

Analysis

CB-MNCs before separation



CD71⁺ cells (reticulocytes)



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Separation of CD71+ cells from cord blood mononuclear cells (CB-MNCs) using CD71 MicroBeads and the Possel separation program on the autoMACS Separator. Cells were fluorescently stained with CD71-APC. Cell debris and dead cells were excluded from the analysis based on scatter signals and PI fluorescence.