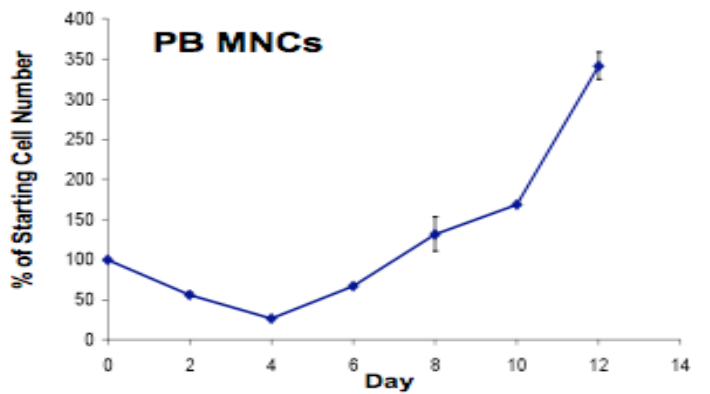
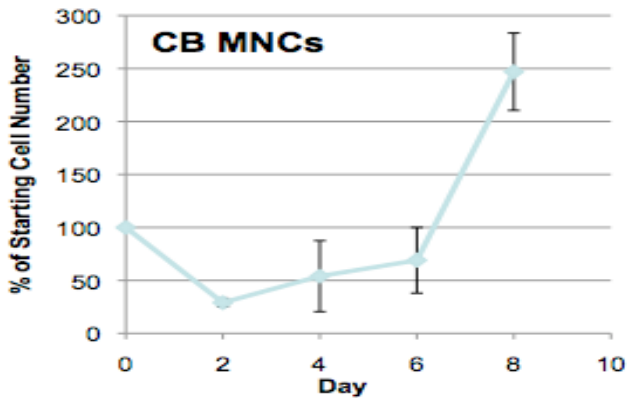
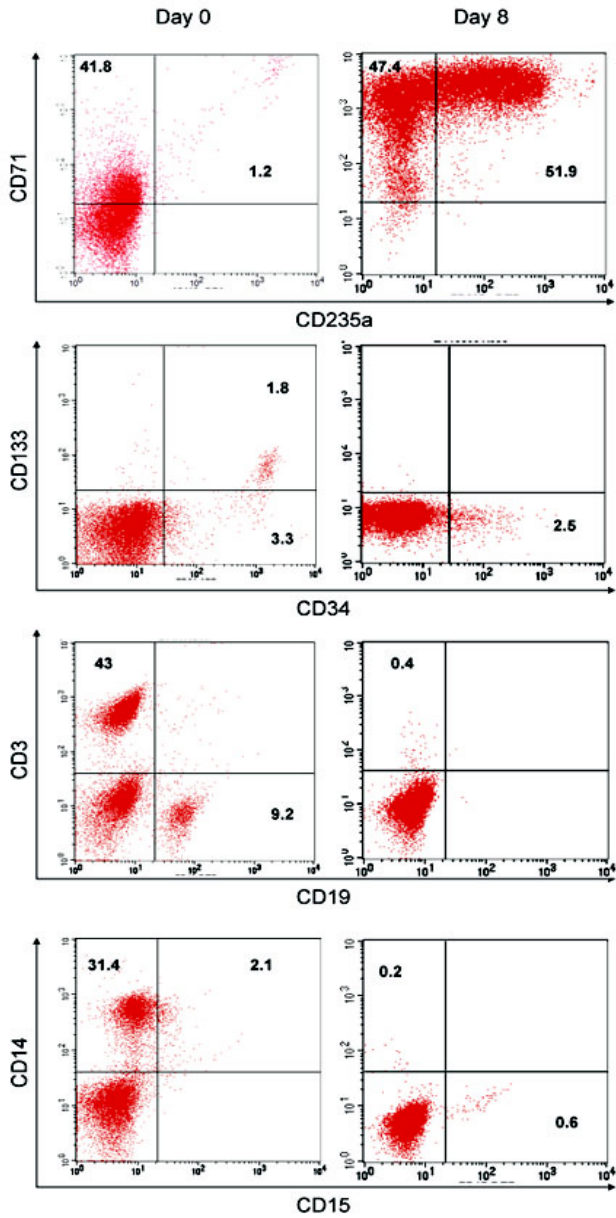


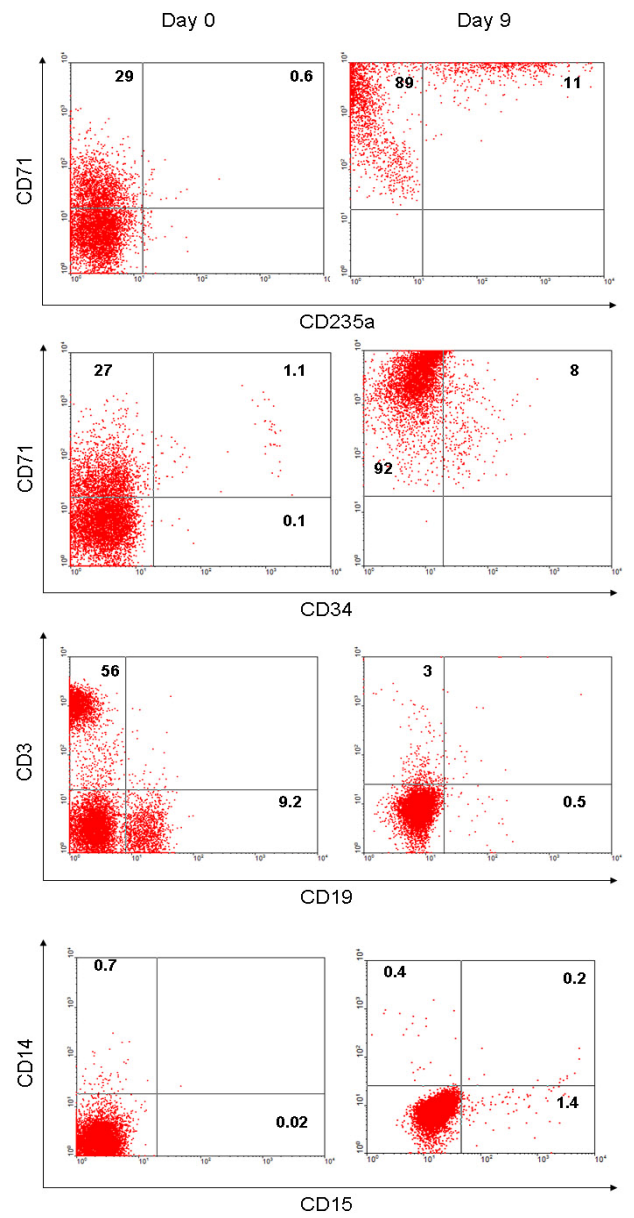
A. Growth curves



B. CB MNCs



C. Adult PB MNCs



Supplementary information, Figure S6 Growth curves and phenotypes of expanded mononuclear cells (MNCs) from newborn cord blood (CB or adult peripheral blood (PB)).

(A) Plots of viable cells numbers at various days after thaw of CB and PB MNCs at day 0 (defined as 100%). Mean +/- SEM of two samples of CB and PB MNCs are shown. **(B)** Phenotypes of CB MNCs before and after 8 days of culture. **(C)** Phenotypes of adult PB MNCs (from SCD003) before and after 9 days of culture when cells were harvested for flow cytometric analysis of surface-marker expression and the remaining cells for reprogramming by nucleofection with 1-2 plasmids. The FACS gating is based on appropriate isotype-controls of each monoclonal antibody conjugated with a fluorochrome. Percentages of each population in two-color dot plots are indicated. After culture (day 8 or 9), the majority of cells resemble erythroblasts that express a high level of CD71 (transferrin receptor), some of them also express intermediate levels of CD235a (glycophorin A). Very few cells express markers for T cells (CD3, <2.4%), B cells (CD19, <0.4%), monocytes (CD14, <0.4%) and granulocytes (CD15, <1.6%) as compared to the cells before culture (day 0). Note that a cell population expressing a low-level of CD34 (2.5% and 8% for CB and PB MNCs, respectively) is also present at day 8-9, as compared to 5.1% and 1.2% CD34+ cells (at a relatively higher level) observed as day 0.