**Supplementary Figure 1.** Heatmap showing the methylation status of cell type-specifically demethylated genes (461 genes/490 CpG sites) in various blood cell types and in non-hematopoietic tissues.
**Supplementary Figure 2.** Methylation and expression values for CD28 and PIK3CG (see Fig. 3). Expression by flow cytometry of CD28 in CD34-iPSC (top panel) and CD34+ HSPCs (bottom panel).
Supplementary Figure 3. Venn diagram showing genes demethylated during hematopoietic differentiation commonly identified in three independent studies: Ji et al., Nature 2010; Borgel et al., Nature Genetics 2011 Calvanese et al., this study.
**Supplementary Figure 4.** Venn diagram showing CpG sites demethylated in myeloid cells (Bocker *et al*, 2011), neutrophils and primary tissues (our study).
**Supplementary Figure 5.** Heatmaps showing the methylation profile of adult CD34\(^+\) cells (Bocker *et al.*.) and our CD34\(^+\) together with the terminally differentiated hematologic cells.