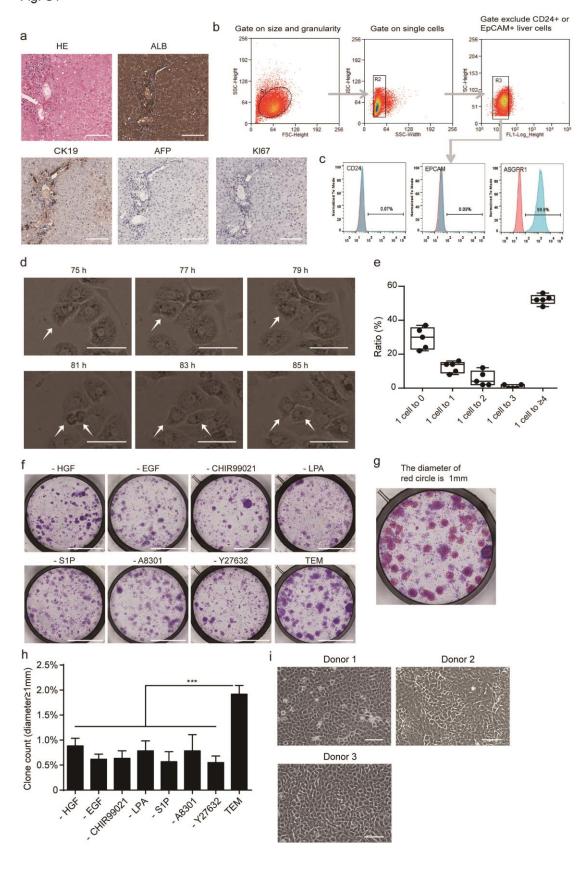
Fig. S1



Supplementary information, fig. S1 Isolation and culture of PHCs in TEM, related to Fig. 1. (a) H&E staining and immunohistochemical staining of ALB, CK19, AFP and Ki67 in serial sections of the donated liver tissues. Scale bars, 100µm. (b) Sorting strategy to purify hepatocytes to exclude CD24 or EpCAM positive progenitor cells using flow cytometry. (c) Flow cytometric analysis showing the proportion of CD24, EpCAM and ASGPR1 positive cells in the populations. Blue, positive cells; red, negative controls. (d) Time-lapse imaging for hepatocytes division in TEM from 75 h to 85 h. White arrows indicate a single cell with two nuclei dividing into two daughter cells. Scale bars, 50µm. (e) The frequency of single cells that produced daughter cells at the end of time-lapse imaging at day 8. Approximately 50 cells observed in each independent experiment, n = 5 donors. (f) Crystal violet staining of clones in TEM or TEM without HGF, EGF, CHIR99021, LPA, S1P, A83-01 or Y27632, respectively. Scale bars, 10mm. (g) Strategy of clone counts. Those with clone diameter more than 1mm are counted. (h) Percentage of colony formation efficiency in TEM or TEM without factors. Error bars represent s.d.; n = 3 donors (one-way ANOVA with Dunnett correction for multiple comparisons, *** p<0.001). (i) Light microscopy images of HepLPCs derived from 3 donors in TEM at passage 10. Scale bars, 100µm.