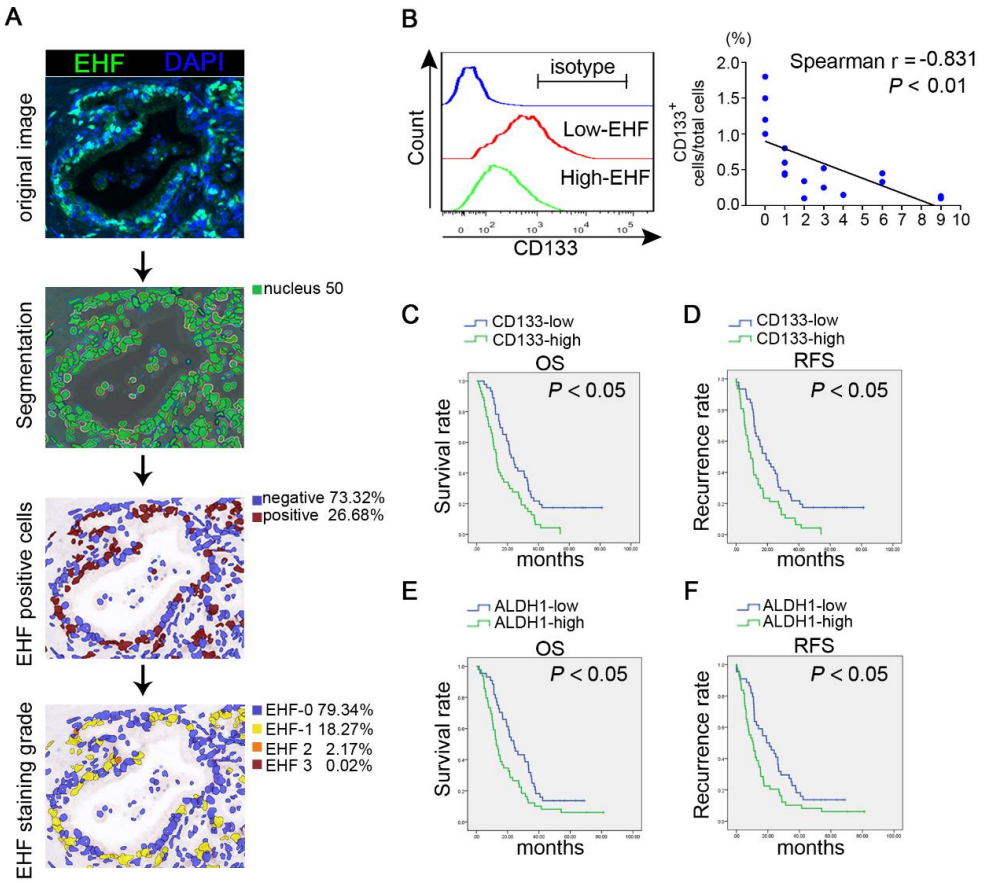

Supplementary figure 1. (A) The objective quantified method for EHF. Mean nucleus intensity of EHF, positive rate of EHF and EHF staining grade were quantified by PerkinElmer Advanced Image Analysis Software-in Form 2.4 Viewer. Tumor areas were manually outlined to exclude stromal nuclei. Nuclei, cytoplasm and membrane were segmented and DAPI was used to identify nuclei. (B) Single cell suspensions were prepared from 18 cases of fresh PDAC tissues and $CD133^+$ population were detected by flowcytometry. Anti-CD133 antibody (Miltenyi Biotec) was used. Representative histograms were shown (left) and Spearman correlation analysis between EHF IHC score and the proportions of $CD133^+$ cells (right); n=18, P<0.01. (C-D) Prognostic significance of $CD133^+$ PCSCs for overall survival (C) and recurrence free survival (D) in a series of 93 cases of PDAC. Kaplan-Meier OS and RFS for different levels of $CD133^+$ PCSCs accumulation based on the log-rank statistic test. (E-F) Prognostic significance of $ALDH1^+$ PCSCs for overall survival (E) and recurrence free survival (F) in a series of 93 cases of PDAC. Kaplan-Meier OS and RFS for different levels of $ALDH1^+$ PCSCs accumulation based on the log-rank statistic test.