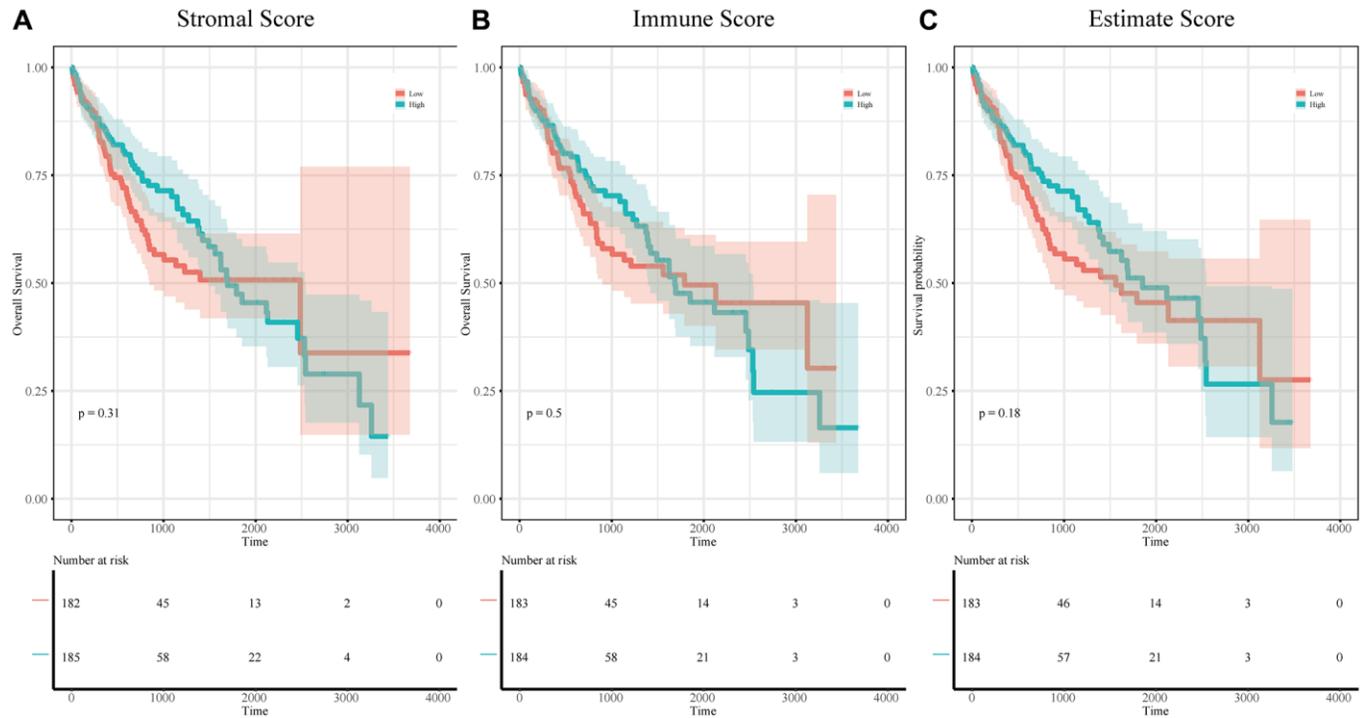
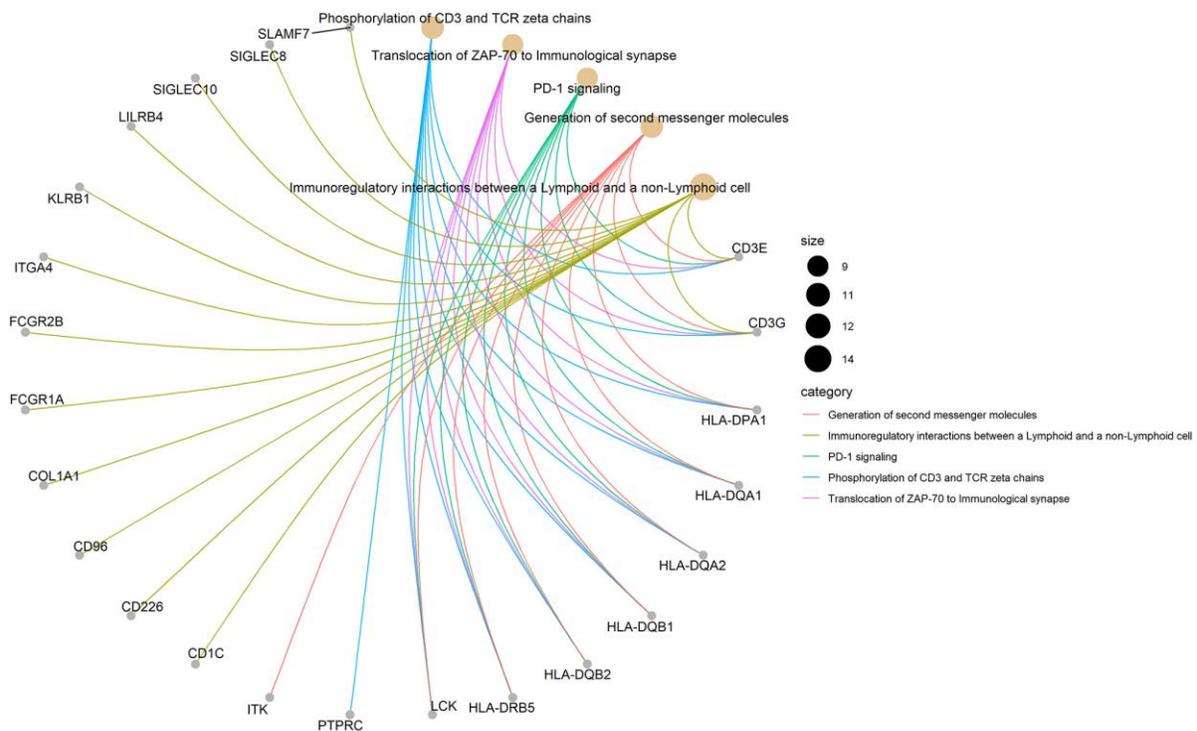


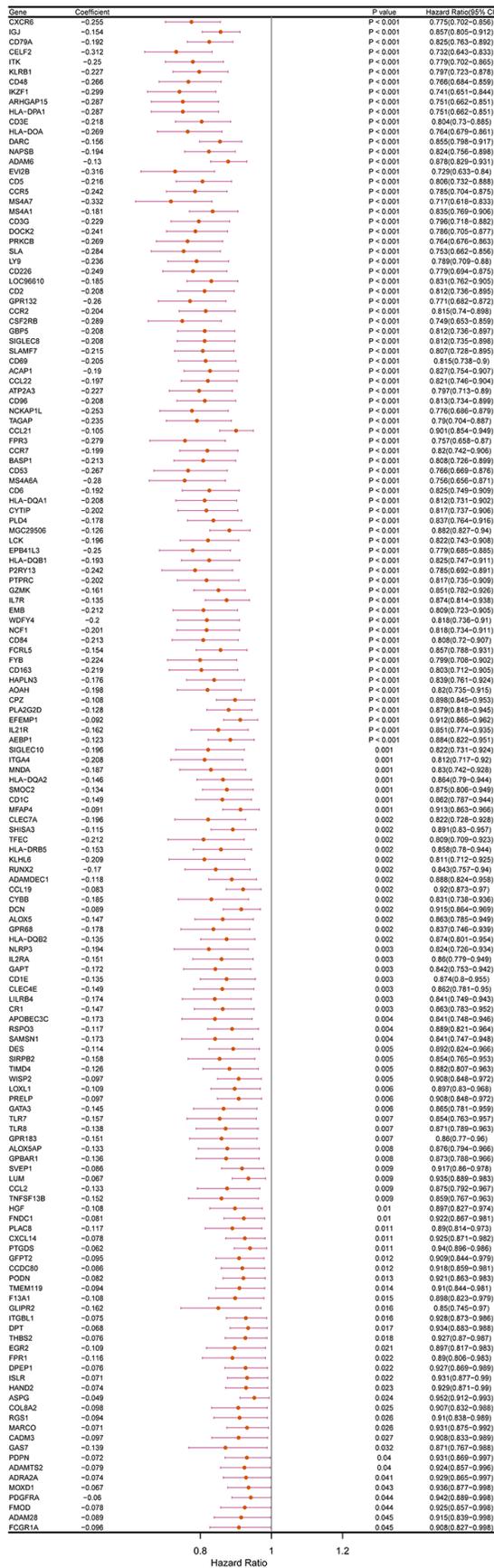
SUPPLEMENTARY FIGURES



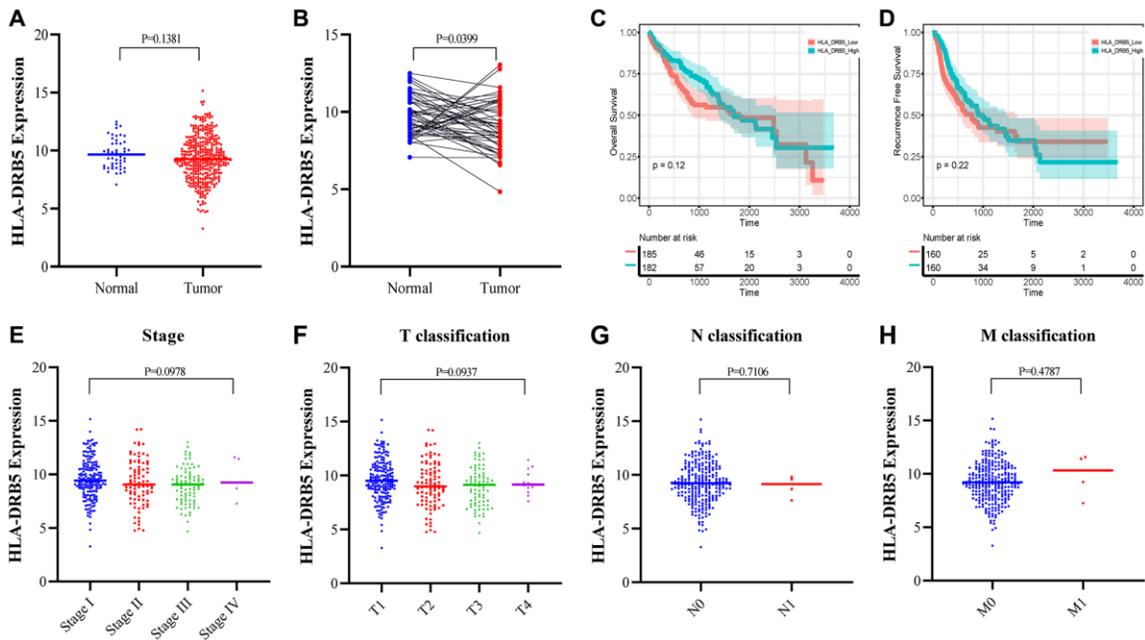
Supplementary Figure 1. The correlation between the scores and the long-term OS of patients with HCC. (A) KM survival curves for the long-term OS of low/high stromal score subgroups ($p = 0.31$). **(B)** KM survival curves for the long-term OS of low/high immune score subgroups ($p = 0.5$). **(C)** KM survival curves for the long-term OS of low/high estimate score subgroups ($p = 0.18$).



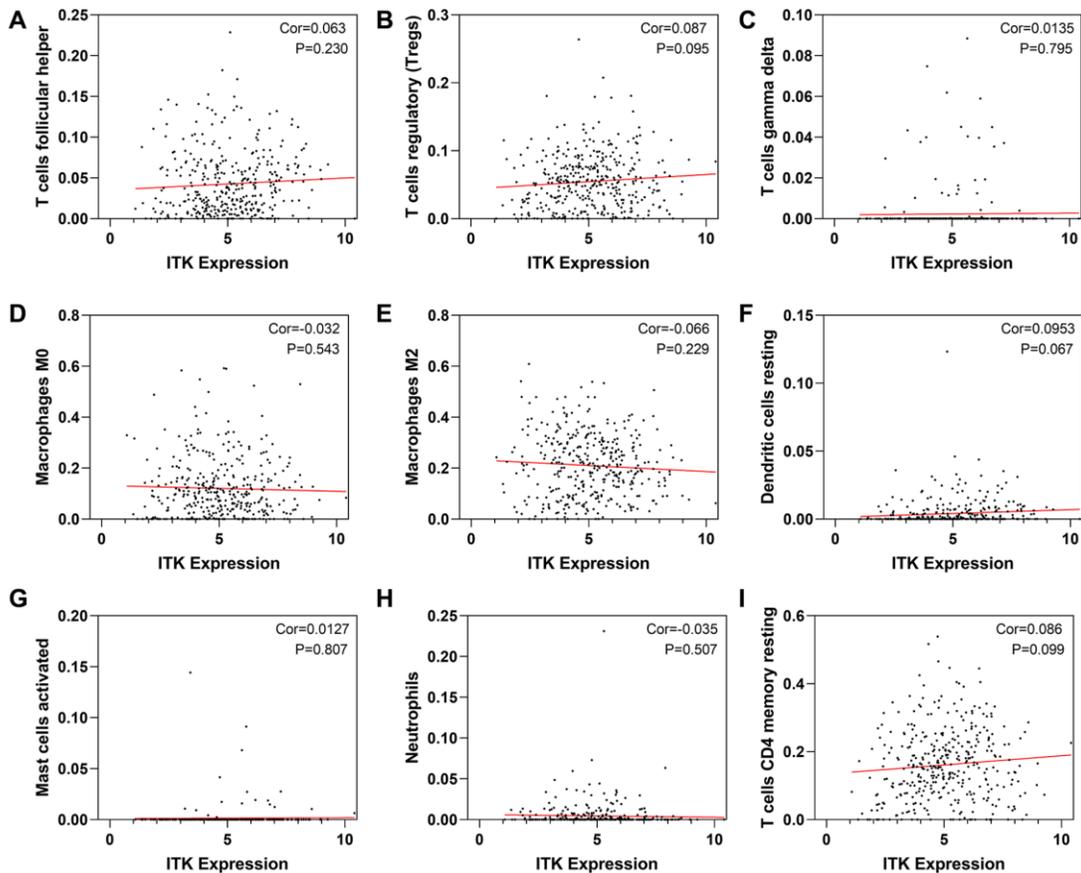
Supplementary Figure 2. Reactome enrichment analysis of the common DEGs.



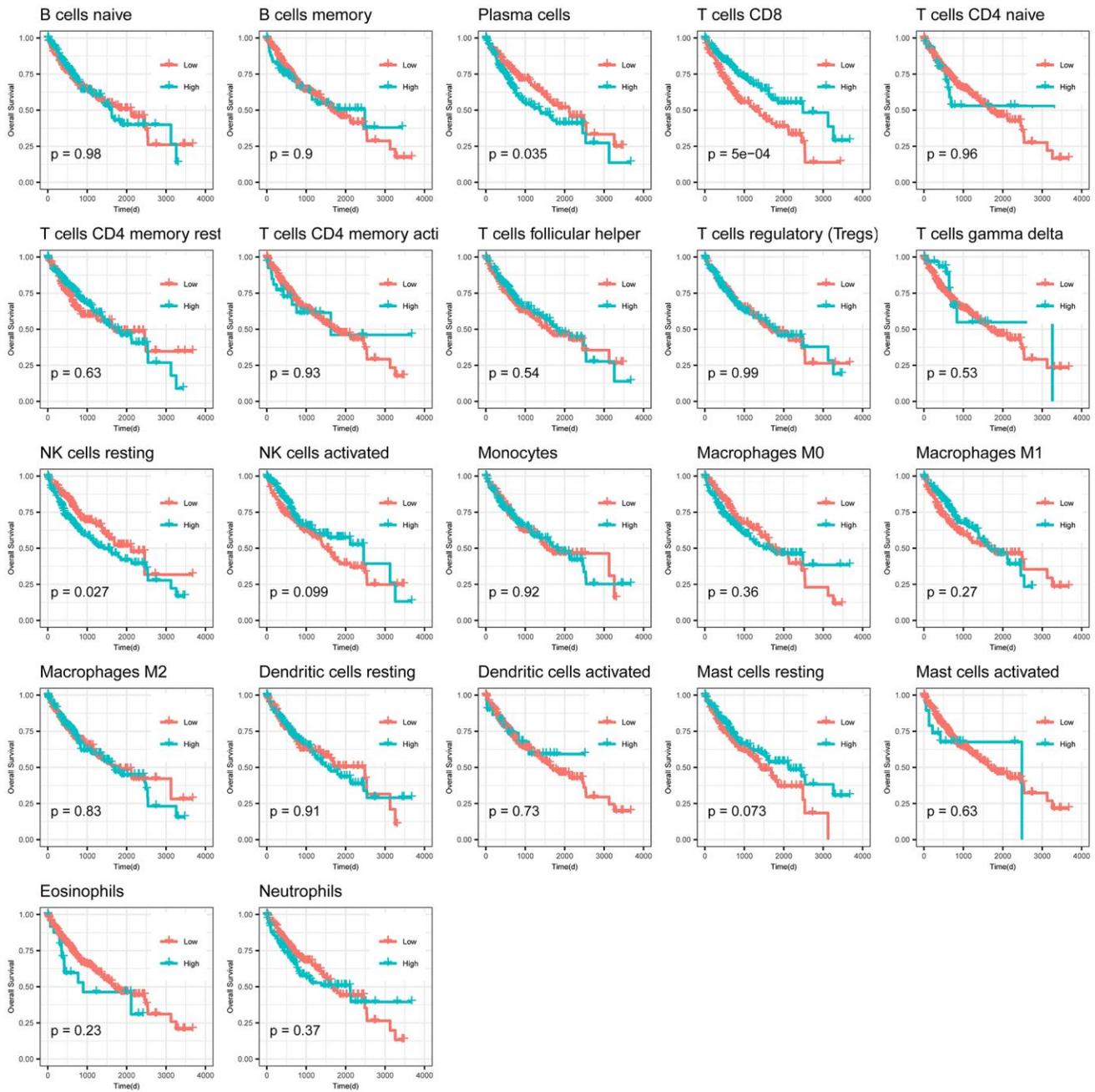
Supplementary Figure 3. Forest plot of the univariate COX regression analysis for RFS.



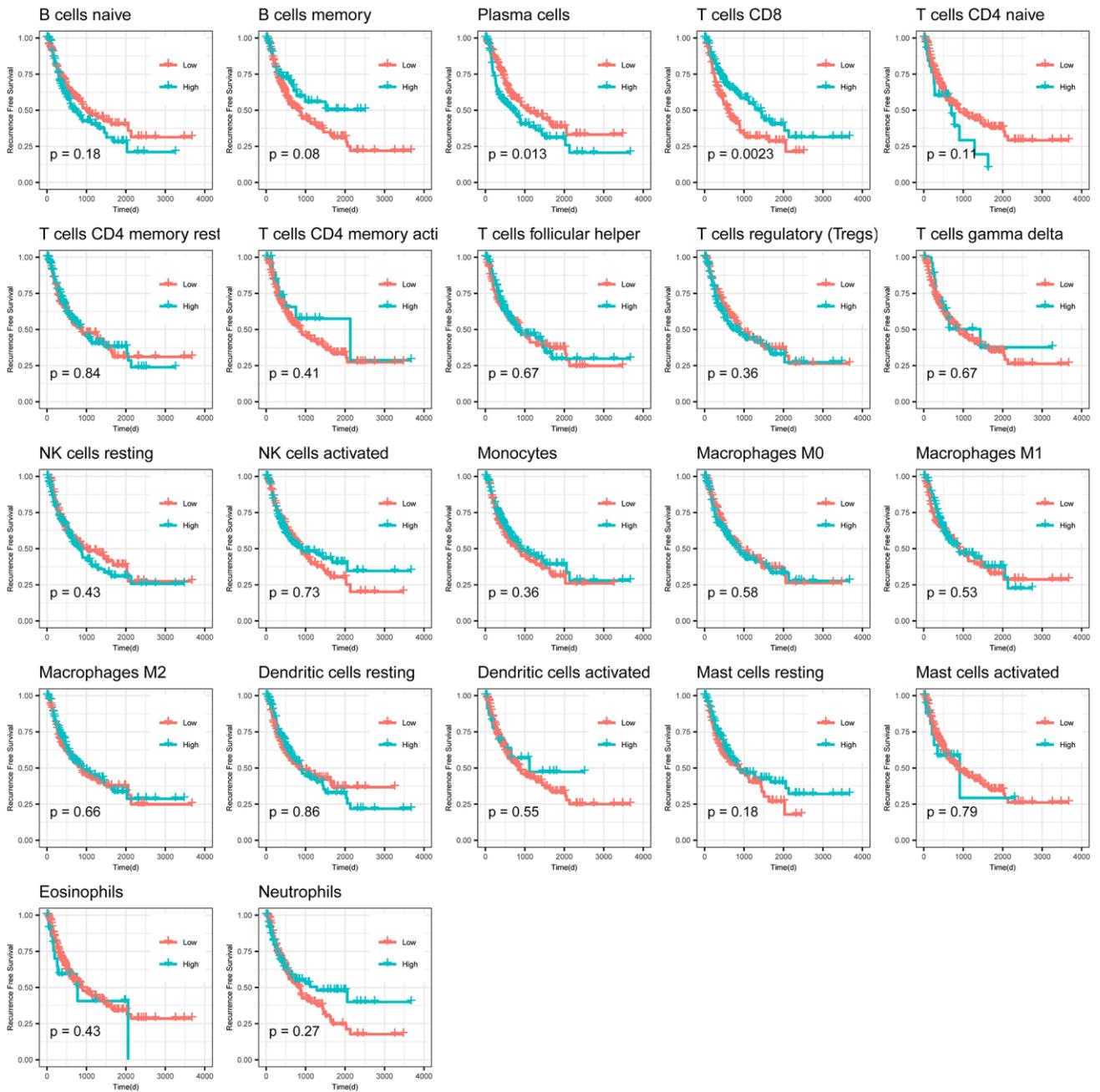
Supplementary Figure 4. HLA-DRB5 expression in HCC tumors and paracarcinoma tissues, and the correlation between HLA-DRB5 and survival/clinical characteristics of patients with HCC. (A) HLA-DRB5 expression in HCC tumor tissues and tumor-adjacent normal tissues ($p = 0.138$). (B) HLA-DRB5 expression in paired HCC tumor tissues and tumor-adjacent normal tissues deriving from the same patient ($p = 0.040$). (C) Overall survival of HLA-DRB5 high and low expression subgroups ($p = 0.12$). (D) Recurrence-free survival of HLA-DRB5 high and low expression subgroups ($p = 0.22$). (E–H) The correlation of HLA-DRB5 expression with clinicopathological staging characteristics.



Supplementary Figure 5. Nine TICs not correlated with ITK expression.



Supplementary Figure 6. KM survival curves for the long-term OS of low/high groups defined by 22 different immune cell subsets.



Supplementary Figure 7. KM survival curves for the RFS of low/high groups defined by 22 different immune cell subsets.