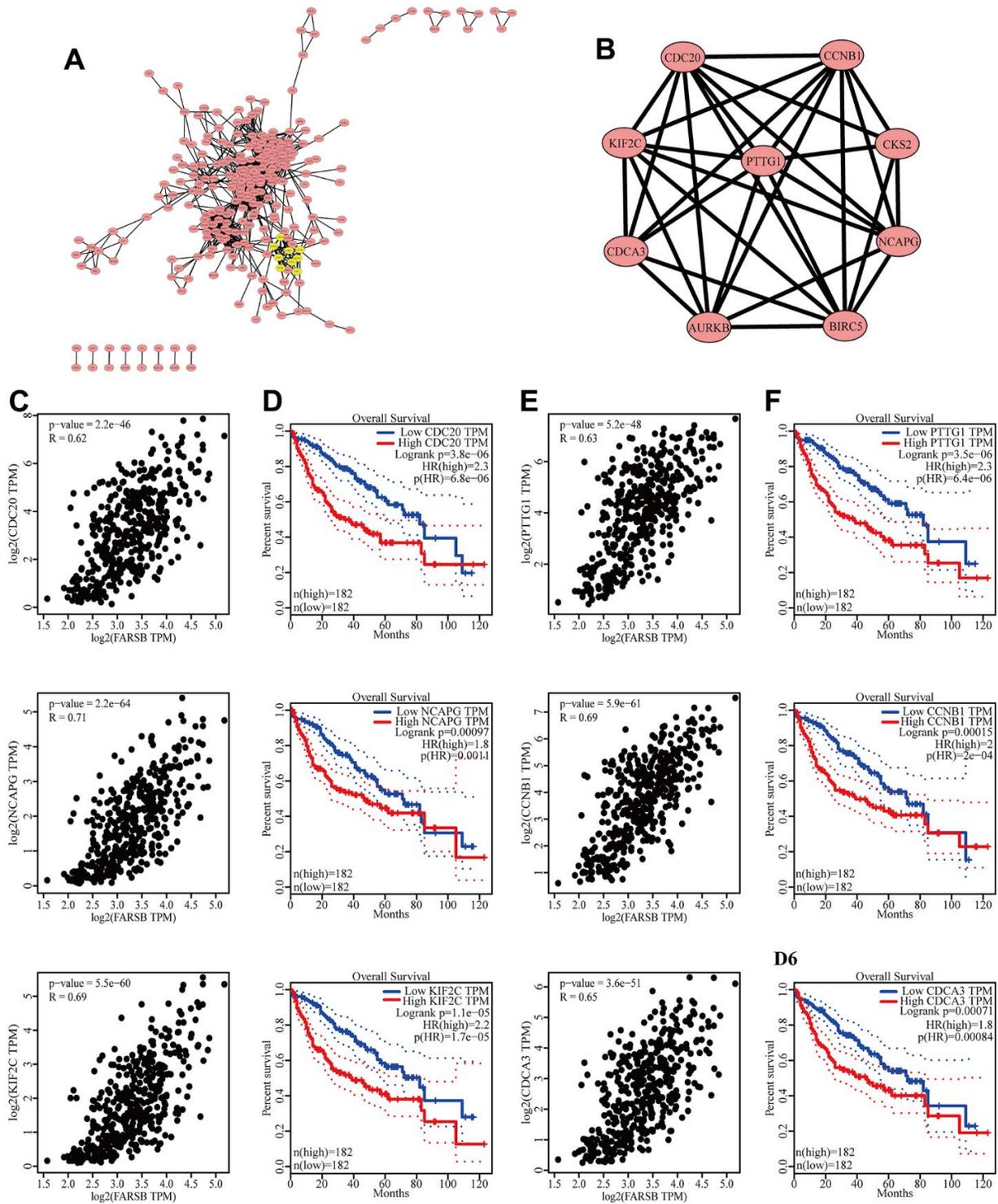
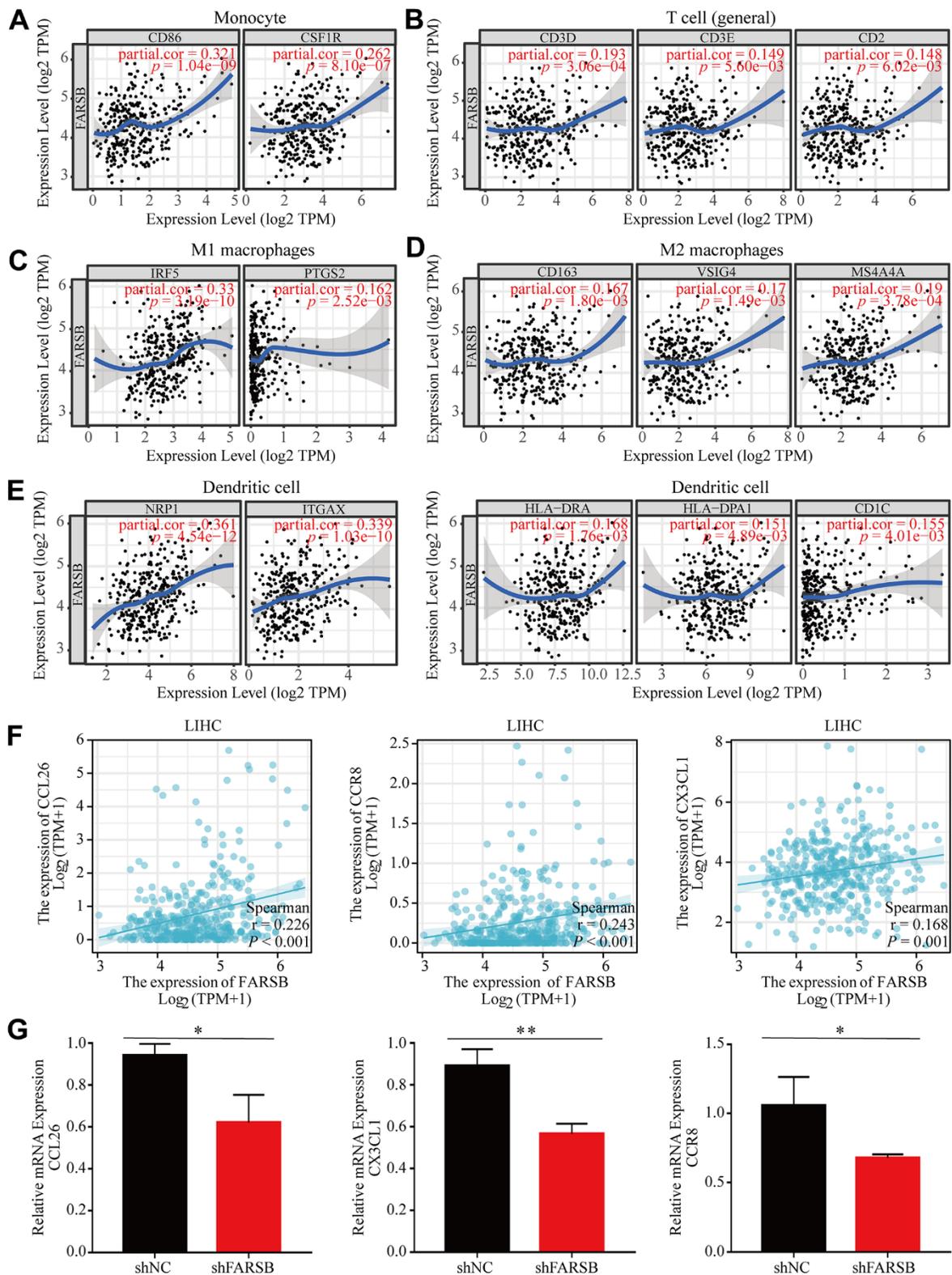


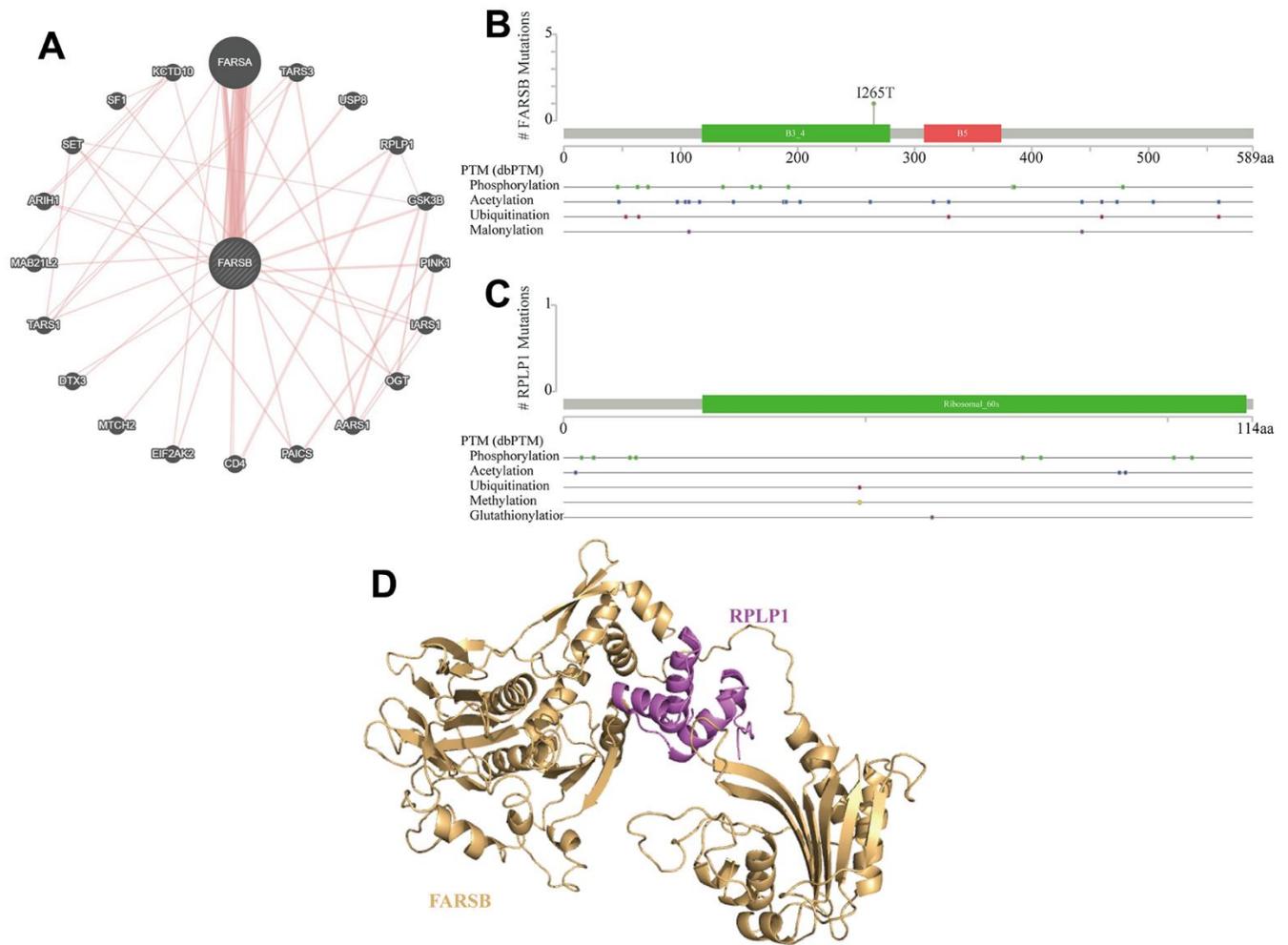
SUPPLEMENTARY FIGURES



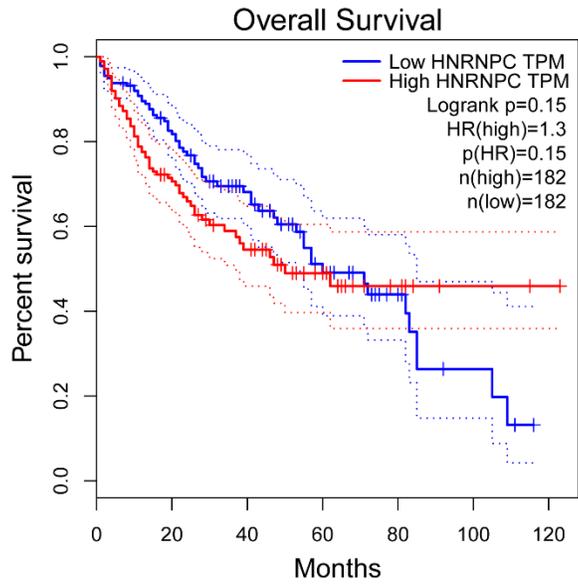
**Supplementary Figure 1. Protein–protein interaction network of related genes (Top200) and analysis of hub genes in HCC.** (A) Protein–protein interaction (PPI) network. (B) MCODE analysis. (C1–C3) Correlation between FARSB and the mRNA expression of CDC20, NCAPG, KIF2C in HCC determined using GEPIA. (D) Prognosis analysis of CDC20, NCAPG, KIF2C. (E) Correlation between FARSB and the mRNA expression of PTTG1, CCNB1, CDCA3 in HCC determined using GEPIA. (F) Prognosis analysis of PTTG1, CCNB1, CDCA3.



**Supplementary Figure 2. Correlation of FARSB expression and the expression of marker genes of infiltrating immune cells.** (A–E) The scatter plots show correlation between FARSB expression and the gene markers of (A) Monocytes (CD86 and CSF1R), (B) T cells (CD3D, CD3E, and CD2), (C) M1 macrophages (IRF5 and PTGS2), (D) M2 macrophages (CD163, VSIG4, and MS4A4A), (E) DCs (NRP1, ITGAX, HLA-DRA, HLA-DPA1, and CD1C) in HCC samples ( $P < 0.05$ ). (F) Correlation between FARSB and CCL26, CX3CL1, CCR8 (G) CCL26, CX3CL1, and CCR8 expression in shFARSB HCLLM3 cells.



**Supplementary Figure 3. Physical interaction of protein FARSB.** (A) Gene interaction networks of FARSB. (B) Secondary protein structure of FARSB. (C) Secondary protein structure of RPLP1. (D) Tertiary structure of FARSB and RPLP1.



Supplementary Figure 4. Correlation of FARSF expression with HNRNPC. Kaplan-Meier curve of HNRNPC  $P = 0.15$ .