SUPPLEMENTARY FIGURES



Supplementary Figure 1. Flow chart.



Supplementary Figure 2. Clinical correlation analysis of SMARCD3. (A) Relationship between SMARCD3 expression and age; (B) Relationship between SMARCD3 expression and gender; (C) Relationship between SMARCD3 expression and Stage.



Supplementary Figure 3. Gene activity analysis of SMARCD3. (A) The difference of SMARCD3 gene activity between normal tissue and tumor tissue. (B) Ranking of SMARCD3 gene activity in pan-cancer.



Supplementary Figure 4. Forest plot of correlation between SMARCD3 expression and survival time in pan-cancer. (A) Univariate COX analysis of SMARCD3 and OS; (B) Univariate COX analysis of SMARCD3 and DFS; (C) Univariate COX analysis of SMARCD3 and PFS.



Supplementary Figure 5. KM survival curves based on disease-specific survival in 6 cancers. (A) COAD; (B) KIRC; (C) LUAD; (D) STAD; (E) UCEC; (F) UVM.



Supplementary Figure 6. KM survival curves based on disease-free survival in 5 cancers. (A) HNSC; (B) LGG; (C) PAAD; (D) STAD; (E) THCA.



Supplementary Figure 7. KM survival curves based on progression-free survival in 7 cancers. (A) COAD; (B) HNSC; (C) MESO; (D) PAAD; (E) STAD; (F) UCEC; (G) UVM.



Supplementary Figure 8. Correlation between StromalScore and SMARCD3 expression in 11 cancers. (A) COAD; (B) ESCA; (C) GBM; (D) HNSC; (E) LIHC; (F) PRAD; (G) READ; (H) SARC; (I) STAD; (J) TGCT; (K) THYM.



Supplementary Figure 9. Correlation between ESTIMATEScore and SMARCD3 expression in 3 cancers. (A) COAD; (B) PRAD; (C) READ.



Supplementary Figure 10. SMARCD3-related immune cells in specific cancers. (A) Plasma cells in DLBC; (B) Mast cells resting in ESCA; (C) Neutrophils in ESCA; (D) Macrophages M1 in KIRP; (E) Mast cells resting in KIRC; (F) Eosinophils in LAML; (G) Monocytes in LAML; (H) Dendritic cells resting in LUAD; (I) Monocytes in PAAD; (J) Macrophages M2 in READ; (K) Mast cells resting in STAD; (L) Monocytes in STAD; (M) Macrophages M2 in TGCT; (N) Monocytes in TGCT; (O) T cells CD4 memory activated in TGCT; (P) T cells follicular helper in TGCT; (Q) B cells naive in TGCT; (R) Dendritic cells resting in THYM; (S) T cells CD4 memory activated in THYM.



Supplementary Figure 11. Immune-related genes associated with SMARCD3 in specific cancers. (A–E) Immunoinhibitor type; (F–H) Immunostimulator type; (I–L) MHC type.



Supplementary Figure 12. Pan-cancer GSEA pathway enrichment analysis based on GO database. (A) ACC; (B) BLCA; (C) BRCA; (D) CESC; (E) CHOL; (F) COAD; (G) DLBC; (H) ESCA; (I) GBM; (J) HNSC; (K) KICH; (L) KIRC; (M) KIRP; (N) LAML; (O) LGG; (P) LIHC; (Q) LUAD; (R) LUSC; (S) MESO; (T) OV; (U) PAAD; (V) PCPG; (W) PRAD; (X) READ; (Y) SARC; (Z) SKCM; (Aa) STAD; (Ab) TGCT; (Ac) THCA; (Ad) THYM; (Ae) UCEC; (Af) UCS; (Ag) UVM.



Supplementary Figure 13. Pan-cancer GSEA pathway enrichment analysis based on KEGG database. (A) ACC; (B) BLCA; (C) BRCA; (D) CESC; (E) CHOL; (F) COAD; (G) DLBC; (H) ESCA; (I) GBM; (J) HNSC; (K) KICH; (L) KIRC; (M) KIRP; (N) LAML; (O) LGG; (P) LIHC; (Q) LUAD; (R) LUSC; (S) MESO; (T) OV; (U) PAAD; (V) PCPG; (W) PRAD; (X) READ; (Y) SARC; (Z) SKCM; (Aa) STAD; (Ab) TGCT; (Ac) THCA; (Ad) THYM; (Ae) UCEC; (Af) UCS; (Ag) UVM.



Supplementary Figure 14. Immunohistochemistry and RT-qPCR results of SMARCD3. (A) Immunohistochemical profile of SMARCD3; (B) SMARCD3 expression in KIRC, LUAD and STAD obtained by RT-qPCR analysis.



Supplementary Figure 15. Expression of SMARCD3 in tissues of LUAD patients.