

Supplemental Figure 1

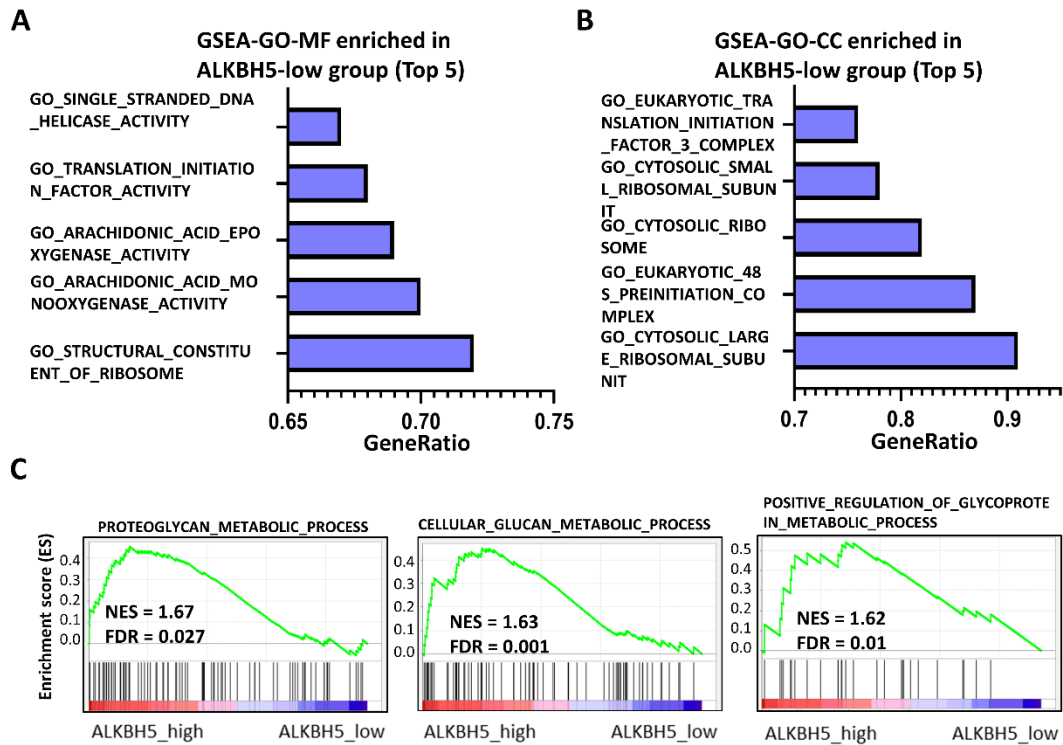


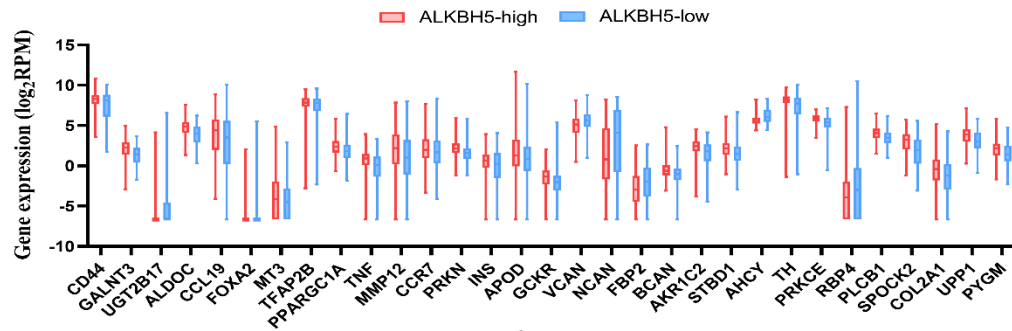
Figure S1

Identification and Landscape of ALKBH5

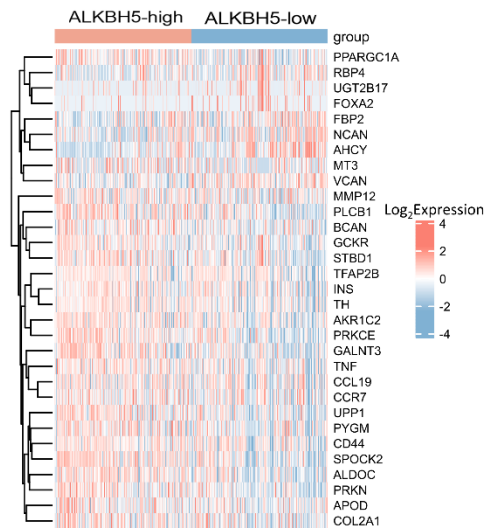
(A, B) Top 5 GO-MF (A) and CC (B) gene sets enriched in the ALKBH5-low group obtained by GSEA. (C) Three additional representative glucometabolic gene sets enriched in the ALKBH5-high group. NES: normalized enrichment score. FDR: false discovery rate.

Supplemental Figure 2

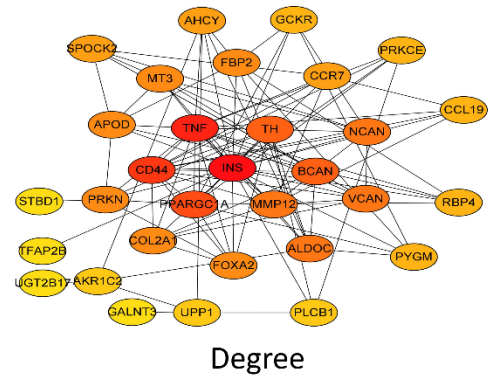
A



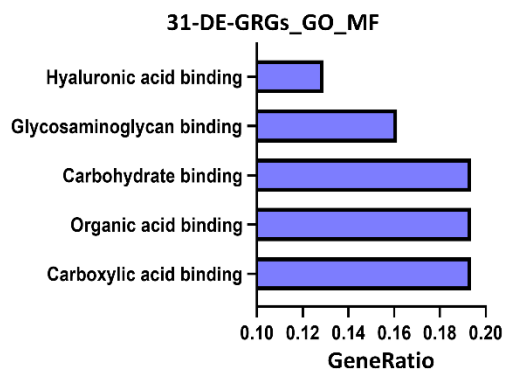
B



C



D



E

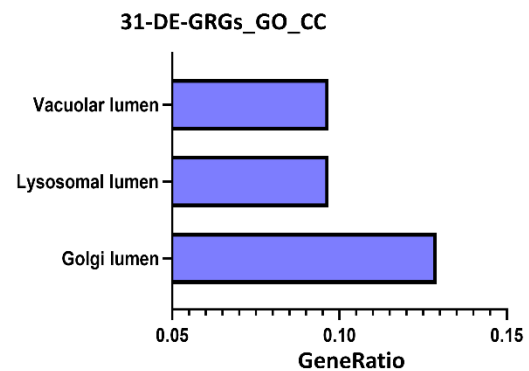


Figure S2

Identification and Functional Enrichment Analyses of DE-GRGs

(A, B) Gene expression profile of 31 DE-GRGs in the boxplot (A) and heatmap (B). All difference reaches statistical significance. (C) Thirty-one DE-GRGs in the PPI network calculated by Degree. (D, E) Top 5 and 3 gene sets functionally enriched by GO-MF (D) and CC (E) annotations.

Supplemental Figure 3

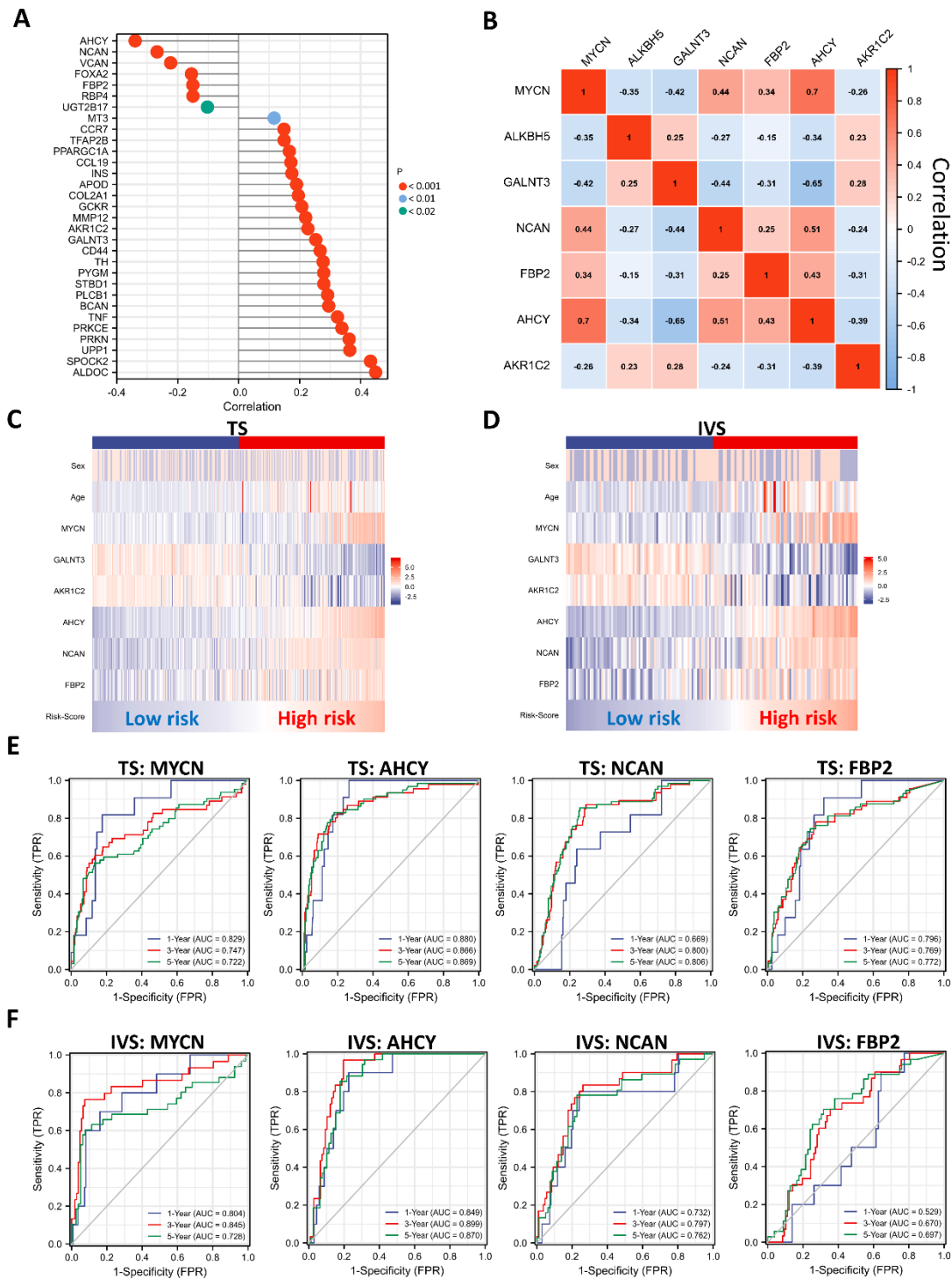


Figure S3

Five-gene Prognostic Signature Based on 31 DE-GRGs

(A) Correlation analysis between ALKBH5 and 31 DE-GRGs in GSE62564. (B) Correlation analysis between MYCN/ALKBH5 and genes in the model in GSE62564. (C, D) Heatmap showing the profile of clinical characteristics and the 5-gene model in TS (C) and IVS (D). (E, F) Time-dependent ROC curve in TS (E) and IVS (F) for independent risk factors including MYCN, AHCY, NCAN and FBP2. TS: training set. IVS: internal validation set. AUC: area under curve.

Supplemental Figure 4

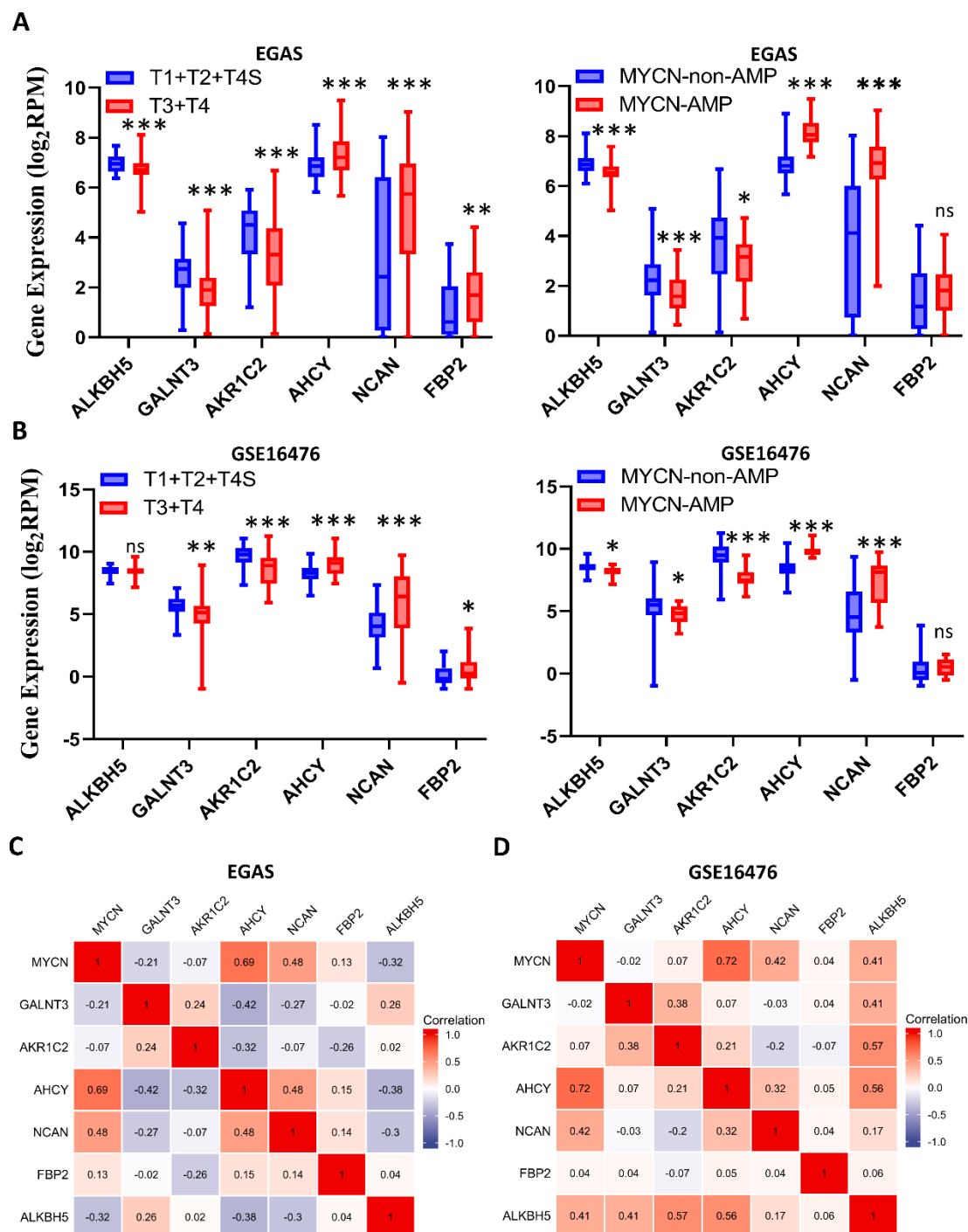


Figure S4

External Validation of the Gene Signature with Public Datasets

(A, B) Gene expression profile of ALKBH5 and 5 genes in the model based on INSS and MYCN amplification status from EGAS (A) and GSE16476 (B). (C, D) Matrix showing gene-gene correlation value among MYCN, ALKBH5 and other 5 genes in the model in EGAS (C) and GSE16476 (D). NS: not significant. $P < 0.05$ was shown as *, $P < 0.01$ as ** and $P < 0.001$ as ***.

Supplemental Figure 5

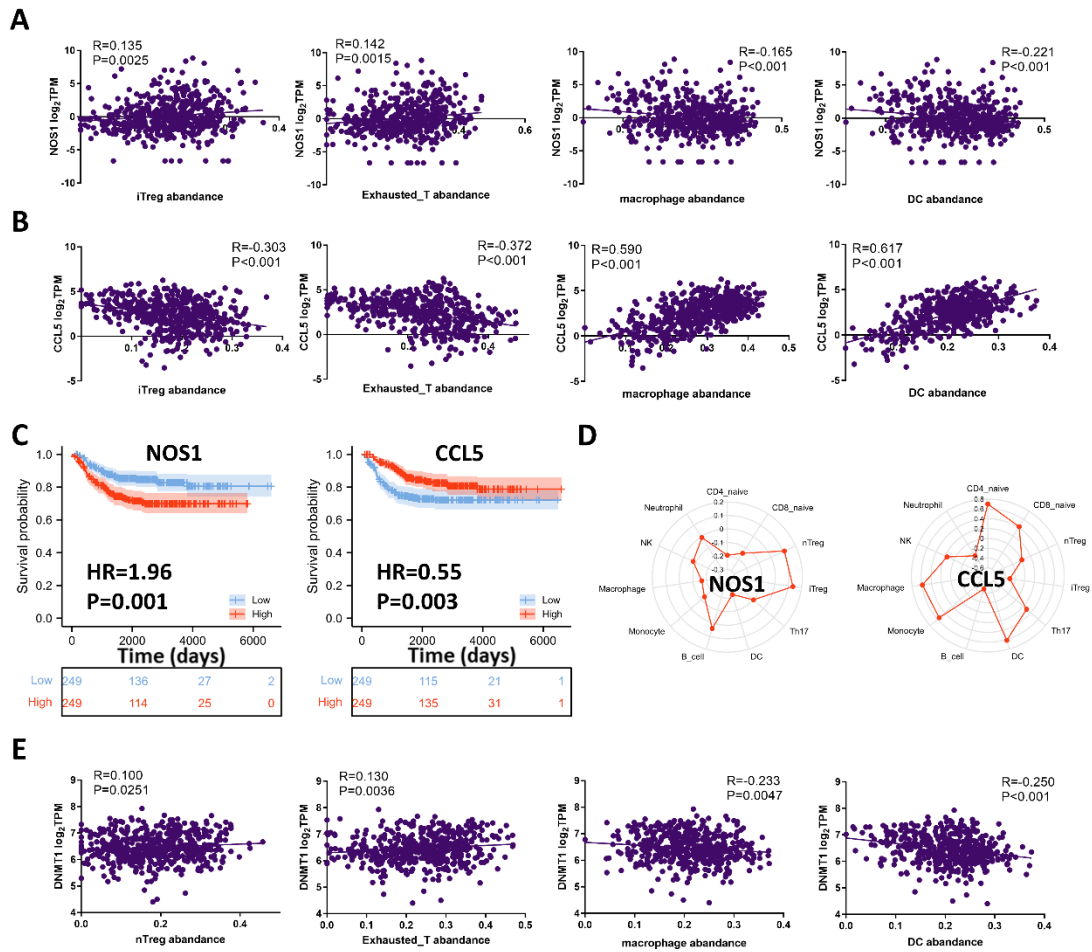


Figure S5

Immune Landscape of Neuroblastoma Patients and Potential Targets

(A, B) Pearson correlation analysis between NOS1 (A)/CCL5 (B) and iTregs/Exhausted T cells/macrophages/DCs. (C) Kaplan-Meier curve of GSE62564 between the NOS1-high and NOS1-low groups (left panel), the CCL5-high and CCL5-low groups (right panel). (D) Radar map showing relationship between immune cells and NOS1 (left panel)/CCL5 (right panel). (E) Pearson correlation analysis between DNMT1 and nTregs/Exhausted T cells/macrophages/DCs. nTregs: natural T regulatory cells. iTregs: inducible T regulatory cells. DCs: dendritic cells.