Supplementary tables

Table S1. Sequence of siRNAs or qPCR primers used in this study.

Name	Sequence (5'-3')				
	Forward (5'-3')	Reverse (5'-3')			
BCLAF1	GCAGAGGGCGCUUUAACUUTT	AAGUUAAAGCGCCCUCUGCTT			
-siRNA					
CDK1	GGAAGGGGTTCCTAGTACTGC	TGGAATCCTGCATAAGCACA			
(human)					
CCNB1	ACCAAAATACCTACTGGGTCGG	GCATGAACCGATCAATAATGG			
(human)					
β-actin	CACCACACCTTCTACAATGAGCTGC	ACAGCCTGGATAGCAACGTACATGG			
(human)					

Table S2. Antibodies used in this study.

Name	Species	Manufacturer		Product Code	Application in this study
Bclaf1	human	Proteintech		26809-1-AP	WB
CDK1	human	Abcam		ab133327	WB, IHC
Cyclin B1	human	Abcam		ab32053	WB, IHC
β-actin	human	Ray	antibody	RM2001	WB
		biotech			

Supplementary figure



[316599]Figure S[1]



[316599]Figure S[2]

[316599]Figure S[3]





[316599]Figure S[4]

Supplementary figure legends

Figure S1. A Differential analysis between adrenal cortex carcinoma and normal adrenal cortex performed through an analysis of the Oncomine database. B, C Kaplan-Meier plots showing OS rates (B) and DFS rates (C) for the high-BCLAF1 and low-BCLAF1 groups. P values were calculated using the log-rank test. D Volcano plots were created to illustrate the distribution of DEGs. The vertical line indicates |log2FC| = 1. E Clustering of 76 samples after excluding outliers (height > 25000). F Determination of the soft thresholding power (=6) for gene clustering. G Merging of clustered modules with height < 0.25. H Hierarchical clustering dendrograms of identified coexpressed genes in 14 modules. I The cell proliferation was determined after crystal violet staining by wide field microscopy.

Figure S2. A Bclaf1 was downregulated by stably integrated BCLAF1-shRNA expression construct. B The cell proliferation was determined by crystal violet staining after knockdown of Bclaf1. C Correlation between Bclaf1 expression and the tumour mitotic rate. D Venn diagram presenting the overlap between different types of clinical information. E Relationship between gene expression and patient survival status. The patients were graded into high-risk and low-risk groups based on their survival status and gene expression (upper panel). The patients' follow-up times are plotted in the middle panel, and the blue triangle indicates death. The expression of 53 genes is illustrated by the heatmap (lower panel). F ROC curve constructed to evaluate the survival status based on the risk score. Coloured curves described the ability to predict the outcome of the patient's death at 1, 3, and 5 years of follow-up. G Survival analysis of patients in the high-risk vs. low-risk groups.

Figure S3. A PPI network of 53 genes. The larger, darker nodes represent higher-degree

nodes. B, C Kaplan-Meier plots showing OS rates and DFS rates for the two core genes. D, E Box plots of (D) CDK1 and (E) CCNB1 based on the TCGA database and matched GTEx normal-tissue database. F, G Differential analysis between adrenal cortex carcinoma and normal adrenal cortex performed by Oncomine database analysis. H, I Downregulation of CDK1 and CCNB1 via BCLAF1 knockdown after cell transfection. The mRNA levels were assessed by RT-qPCR. **p < 0.01, and ***p < 0.001 vs. the control.

Figure S4. A, B Plot of the GO enrichment analysis. The molecular function (MF) and cellular component (CC) terms are illustrated. C, D ChIP-seq performed with the Cistrome Data Brower: a peak near a transcription start site (TSS) indicates that Bclaf1 has a binding signal at this locus.