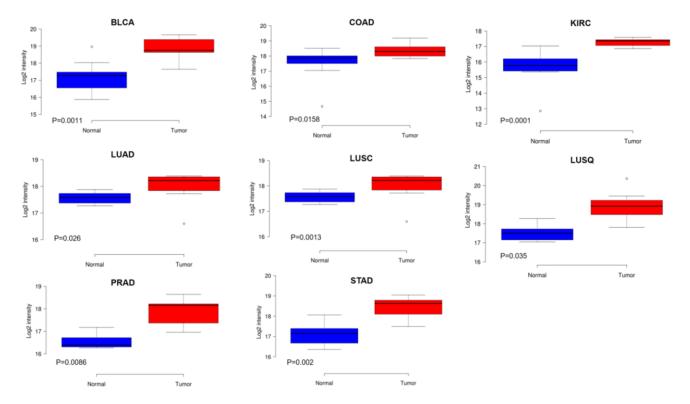
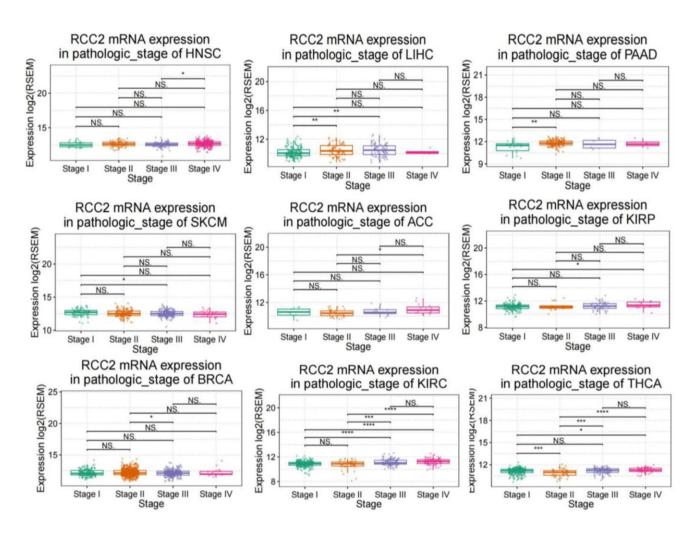
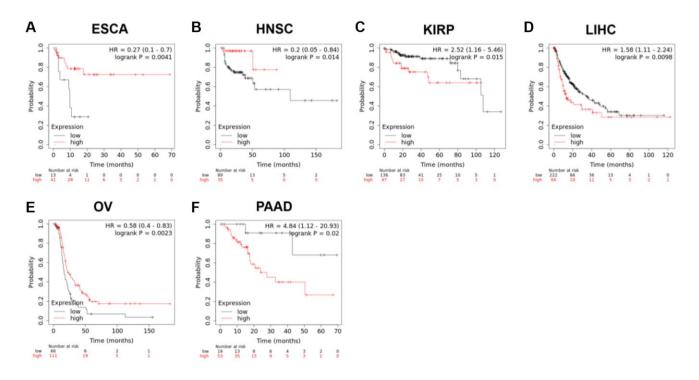
SUPPLEMENTARY FIGURES



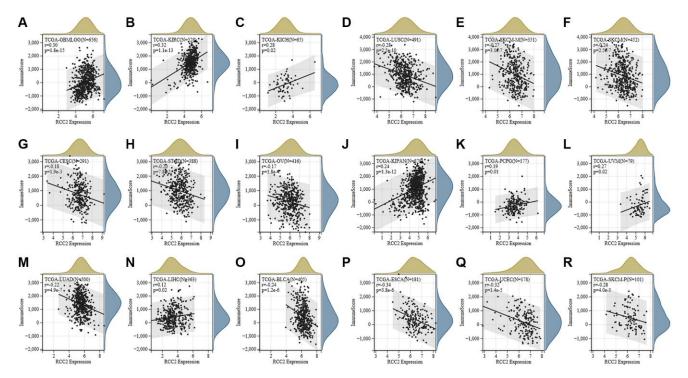
Supplementary Figure 1. RCC2 expression in proteomics data of 16 different cancer types. Only cancer types with *p* < 0.05 were illustrated.



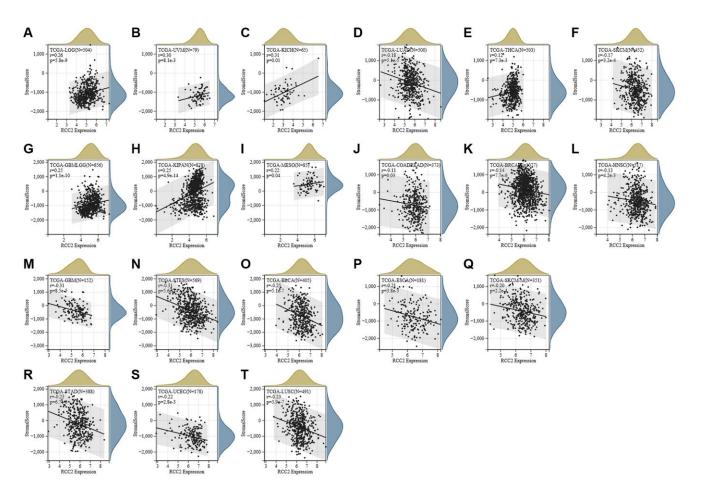
Supplementary Figure 2. RCC2 mRNA expression in pathologic stages of HNSC, LIHC, PAAD, SKCM, ACC, KIRP, BRCA, KIRC, and THCA.



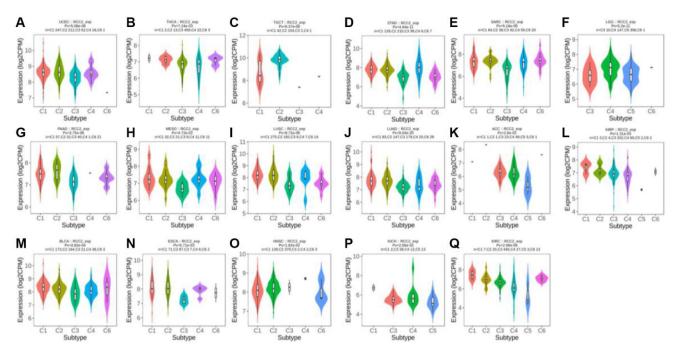
Supplementary Figure 3. (A–F) Relationship between *RCC2* expression and relapse-free survival (RFS) in TCGA pan-cancer. Only tumor types with log-rank p < 0.05 were displayed.



Supplementary Figure 4. (A-R) Correlation of RCC2 expression with immune scores.



Supplementary Figure 5. (A–T) Correlation of RCC2 expression with stromal scores.



Supplementary Figure 6. Expression levels of *RCC2* in different types of tumor immune subtypes. (A) UCEC. (B) THCA. (C) TGCT. (D) STAD. (E) SARC. (F) LGG. (G) PAAD. (H) MESO. (I) LUSC. (J) LUAD. (K) ACC. (L) KIRP. (M) BLCA. (N) ESCA. (O) HNSC. (P) KICH. (Q) KIRC.

			A Company of Company			1
TCGA-GBM(N=152)	**		**			
TCGA-GBMLGG(N=656)	**	**	**	**		
TCGA-LGG(N=504)	**	**	**	**		
TCGA-CESC(N=291)	**					
TCGA-LUAD(N=500)	**		**		*	
TCGA-COAD(N=282)		*		*		
TCGA-COADREAD(N=373)		*		*		
TCGA-LAML(N=149)						
TCGA-BRCA(N=1077)		**	**	**		
TCGA-ESCA(N=181)	**	**	*		*	
TCGA-STES(N=569)	**	**	**		**	
TCGA-SARC(N=258)						
TCGA-KIRP(N=285)	**	*		**	*	* p < 0.05
TCGA-KIPAN(N=878)		**	**	**	**	p ~ 0.05
TCGA-STAD(N=388)	**			**	**	** p < 0.01
TCGA-PRAD(N=495)	**	**	*	*		C
TCGA-UCEC(N=178)						Correlation
TCGA-HNSC(N=517)	**	**				1.0
TCGA-KIRC(N=528)		**	**	**	**	0.5
TCGA-LUSC(N=491)	**	**	**	**		
TCGA-THYM(N=118)	**					0.0
TCGA-LIHC(N=363)		**	**	**	**	-0.5
TCGA-THCA(N=503)		**	**	**		
TCGA-MESO(N=85)				*		-1.0
TCGA-READ(N=91)					*	
TCGA-SKCM-M(N=351)	**	**	**	**	*	
TCGA-SKCM(N=452)	**		**	**	*	
TCGA-PAAD(N=177)		**	**	**		
TCGA-OV(N=417)		**	**		**	
TCGA-TGCT(N=132)						
TCGA-PCPG(N=177)		**	**			
TCGA-SKCM-P(N=101)						
TCGA-UVM(N=79)		**	**	**		
TCGA-UCS(N=56)						
TCGA-BLCA(N=405)	**		**		*	
TCGA-ACC(N=77)	*	*		**		
TCGA-KICH(N=65)		**	**	*	**	
TCGA-CHOL(N=36)	*					
TCGA-DLBC(N=46)	**	**				
	x	÷¢	çç	æ	1PS	
	MHC	v	Ċ	0	1	

Supplementary Figure 7. Correlation of *RCC2* **expression with MHC, EC, SC, CP, and IPS scores in pan-cancer.** Abbreviations: MHC: major histocompatibility complex; EC: effector cells; SC: suppressor cells; CP: checkpoints; IPS: immunophenoscore.