

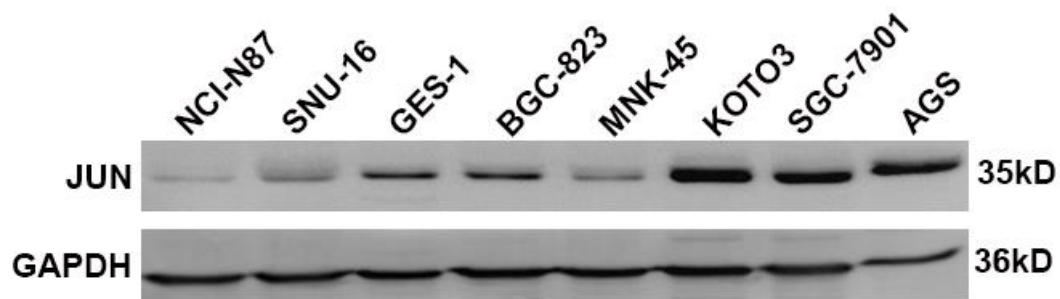
Supplementary Table 1 Primary antibodies used in this study

Proteins	Antibodies	Dilution (Western blot)	Dilution (IHC/IF)	Catalog number	Company
CagA	Mouse mAb	1:500	NA	sc-28368	Santa Cruz
p-CagA	Anti-p-Tyr mouse mAb (PY99)	1:1000	NA	sc-7020	Santa Cruz
JUN	Mouse mAb	1:1000	1:250	2315S	CST
p-JUN	p-JUN (Thr91) mAb	1:800	NA	2303S	CST
FOSL1	Rabbit mAb	1:1000	NA	5281S	CST
DKK1	Rabbit Ab	1:800	1:200	4687S	CST
CKAP4	Rabbit pAb	1:8000	1:250	16686-1-AP	Proteintech
AKT	Rabbit mAb	1:1000	NA	4691S	CST
p-AKT	p-AKT (Ser473) Rabbit mAb	1:800	NA	4060S	CST
PI3K	Rabbit pAb	1:1000	NA	27921-1-AP	Proteintech
p-PI3K	Rabbit pAb	1:800	NA	27921-1-AP	Proteintech
mTOR	Rabbit mAb	1:1000	NA	2983S	CST
p-mTOR	p-mTOR (Ser2448) Rabbit mAb	1:800	NA	5536S	CST
Ki67	Mouse mAb	NA	1:300	9449S	CST
β -catenin	Rabbit pAb	1:1000	1:250	51067-2-AP	Proteintech
GAPDH	Mouse mAb (HRP- conjugated)	1:8000	NA	HRP-60004	Proteintech
β -actin	Mouse mAb (HRP- conjugated)	1:10000	NA	HRP-60008	Proteintech

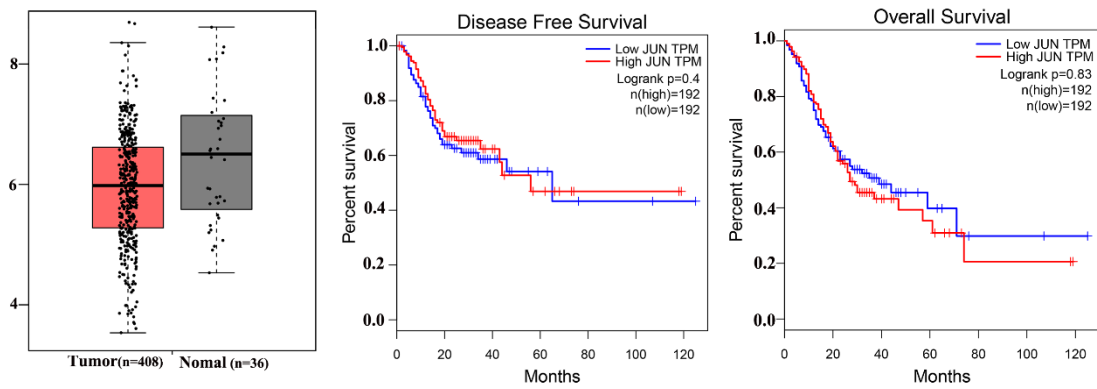
IHC: Immunohistochemistry; IF: Immunofluorescence.

Supplementary Table 2 Primers used for RT-qPCR in this study

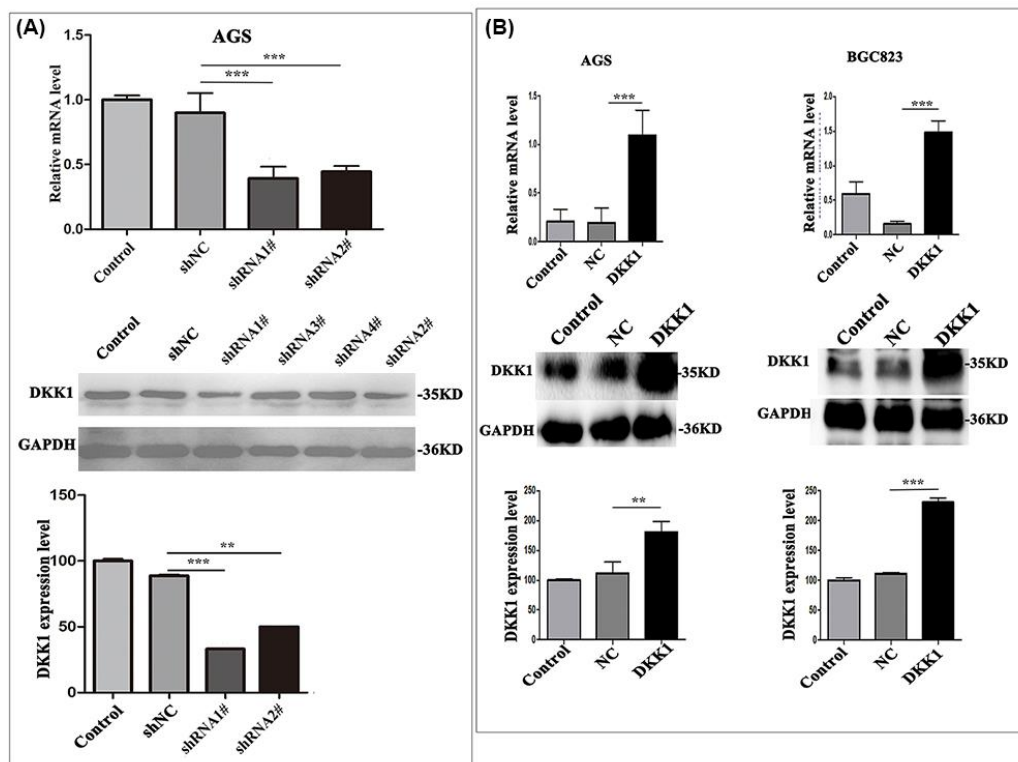
Gene	GenBank ID		Primer sequences (5'-3')	Product length(bp)
<i>JUN</i>	NM-002228.3	Forward	GCAAAGAACTTTCCCGGCTG	186
		Reverse	CTGCCCAAGTTCAACAACC	
<i>DKK1</i>	NM-012242.3	Forward	CAGGCGTGCAAATCTGTCTC	171
		Reverse	GGAATACCCATCCAAGGTGCT	
<i>β-catenin</i>	X87838.1	Forward	CCCACTAATGTCCACGTT	324
		Reverse	CTCACGATGATGATGGAAAGGT	
<i>GAPDH</i>	NM-002046.7	Forward	TGGACTCCACGACGTACTIONCAG	136
		Reverse	ACATGTTCCAATATGATTCCA	



Supplementary Figure 1 JUN expression was determined in gastric cancer cell lines NCI-N87, SNU-16, BGC 823, MNK-45, KOTO3, SGC-7501, and AGS cells as well as gastric normal cell line GES-1 cells.



Supplementary Figure 2 JUN expression and Kaplan-Meier survive analysis in TCGA-STAD dataset.



Supplementary Figure 3 RT-qPCR and western blotting for DKK1 in the DKK1-knocked down AGS cells (A) and DKK1-overexpressed AGS and BGC823 cells (B).