

Figure S1. Semi-quantification and statistical analysis results of all western blots. (A) Semi-quantified of western blot results of NCAPG expression in CRC cells transfected with shCtrl or shNCAPG. (B) Semi-quantified western blot results of the NCAPG-knockdown effect on apoptosis-related protein expression. (C) Semi-quantified western blot results of the relative expression of PI3K, p-PI3K, AKT and p-AKT in transfected and 740Y-P-treated CRC cells. (D) Semi-quantified western blot results of NCAPG expression in HCT15 cells transfected with miR-23b-3p mimic and HCT 116 treated with anti-miR-23b-3p. * $P < 0.05$ and ** $P < 0.01$. NCAPG, non-SMC condensing I complex subunit G; sh, short hairpin RNA; Ctrl, control; miR, microRNA; CRC, colorectal cancer; p-, phosphorylated.

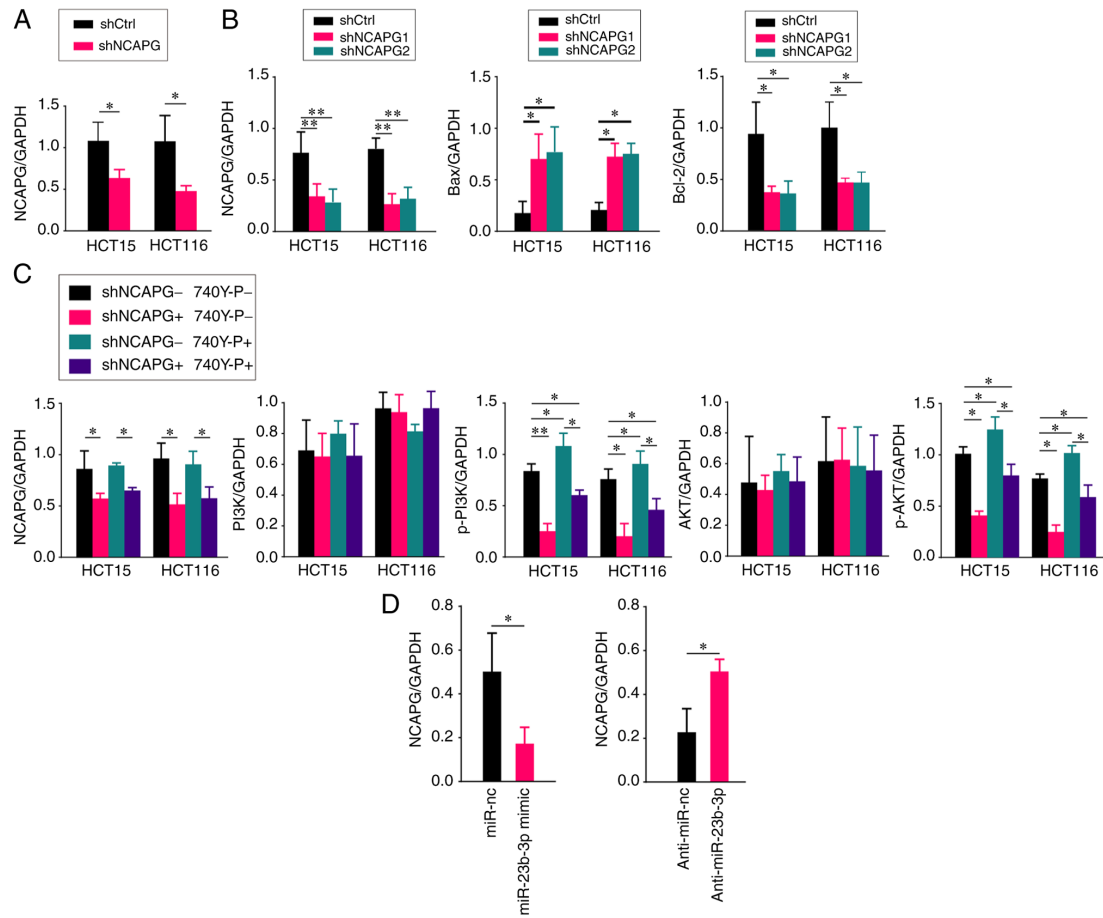


Figure S3. TargetScan, StarBase and miRcode databases were used to predict NCAPG as a potential downstream target of miR-23b-3p. miR, microRNA; NCAPG, non-SMC condensing I complex subunit G.

TargetScan

Position 746-752 of NCAPG 3' UTR 5' ... UUCUAGUGGGAAUAUAAUGUGAC...
hsa-miR-23b-3p 3' CCAUUAAGGGACCGUUACACUA

Starbase

Binding Site of hsa-miR-23b-3p on NCAPG:

Show 10 entries

Search:

BindingSite	Class	Alignment	AgoExpNum	CleaveExpNum
chr4:17845794-17845800[+]	7mer-m8	Target: 5' aaUAAUUCUAGUGGGAUAAUUGUGAc 3' : : miRNA : 3' ccAUUAGGG--ACC-----GUUACACUa 5'	8	0

MiRcode

ENSG00000109805.5 (NCAPG) (coding)							
microRNA family	Seed position	Seed type	Transcript region	Repeat	Conservation		
					Primates	Mammals	Other vertebrates
miR-23abc/23b-3p	chr4:17814700	7-mer-m8	CDS.ncRNA	no	89 %	43 %	46 %
miR-23abc/23b-3p	chr4:17816593	7-mer-A1	CDS	no	89 %	74 %	38 %
miR-23abc/23b-3p	chr4:17845801	7-mer-m8	3pUTR	no	56 %	30 %	0 %

Table SI. Clinical characteristics of patients with colorectal cancer.

Clinical characteristic	Case, n (%)
Age, years	
<60	24
≥60	59
Sex	
Male	41
Female	42
T stage	
T1 and T2	48
T3 and T4	35
Lymph node metastasis	
Absent	46
Present	37
Differentiation	
Well	28
Moderate	27
Poor	28
Tumor size	
<5 cm	48
≥5 cm	35
Tumor location	
Colon	22
Rectum	61