

Supplementary Table 1: Western blotting (WB) and Immunohistochemistry (IHC) antibody information

Antibody	Company	Catalog number	Dilution	Method
GAPDH	EMD Millpore	MAB374	1:10000	WB
SGK3	Cell signaling technology	8573	1:1000	WB
c-Met	Abcam	ab59884	1:100	WB
Pten	Cell signaling technology	9188	1:1000	WB
Phospho-AKT ^{S473}	Cell signaling technology	3787	1:1000	WB
Phospho-AKT ^{T308}	Cell signaling technology	13038	1:1000	WB
AKT	Cell signaling technology	9272	1:1000	WB
Phospho-4E-BP1	Cell signaling technology	2855	1:2000	WB
Phospho-RPS6	Cell signaling technology	5363	1:2000	WB
RPS6	Cell signaling technology	2217	1:2000	WB
Phospho-ERK	Cell signaling technology	4370	1:1000	WB
ERK	Cell signaling technology	9102	1:1000	WB
p-FoxO1	Cell signaling technology	84192	1:1000	WB
p-GSK3 β	Cell signaling technology	9336	1:1000	WB
Active β -Catenin	Cell signaling technology	4270	1:1000	WB
β -Catenin	BD Biosciences	BD610153	1:2000	WB
CCND1	Abcam	ab134175	1:20000	WB
β -actin	Sigma-Aldrich	A5441	1:4500	WB
E-Cadherin	BD Biosciences	610181	1:500	IHC
Vimentin	Cell signaling technology	5741	1:100	IHC
β -Catenin	BD Biosciences	BD610153	1:400	IHC
Glutamine Synthetase	BD Biosciences	BD 610518	1:500	IHC
ACC	Cell Signaling Technology	3676	1:100	IHC
FASN	Cell Signaling Technology	3180	1:150	IHC
Ki67	Thermo Scientific	MA5-14520	1:150	IHC

Supplementary Table 2: Cell Line Information

Name	Source	Citation	Cat no.	Authentication test method/Time	test method for mycoplasma contamination
HuH7	JCRB Cell Bank	Pubmed: 6286115	JCRB0403	STR 3/7/2016	PCR
HLE	JCRB Cell Bank	PubMed: 52570	JCRB0404	STR 3/7/2016	PCR

Supplementary Table 3: Clinicopathological features of HCC Patients

Variables	Features	
	HCCB ^a	HCCP ^b
No. of patients	24	28
Male	18	18
Female	6	10
Age (Mean \pm SD)	63.8 \pm 10.2	66.0 \pm 10.8
Etiology		
HBV	10	12
HCV	8	10
Ethanol	6	6
Cirrhosis		
+	18	20
-	6	8
Tumor size		
> 5 cm	16	18
< 5 cm	8	10
Edmondson and Steiner grade		
II	8	5
III	10	11
IV	6	12
Alpha-fetoprotein secretion		
> 300 ng/ml of serum	14	19
< 300 ng/ml of serum	10	9
Survival after partial liver resection (months)		
Means \pm SD	63.4 \pm 22.2	16.8 \pm 12.2

^aHCCB, HCC with better prognosis/longer survival (survival \geq 3 years following partial liver resection).

^bHCCP, HCC with poorer prognosis/shorter survival (survival <3 years following partial liver resection).