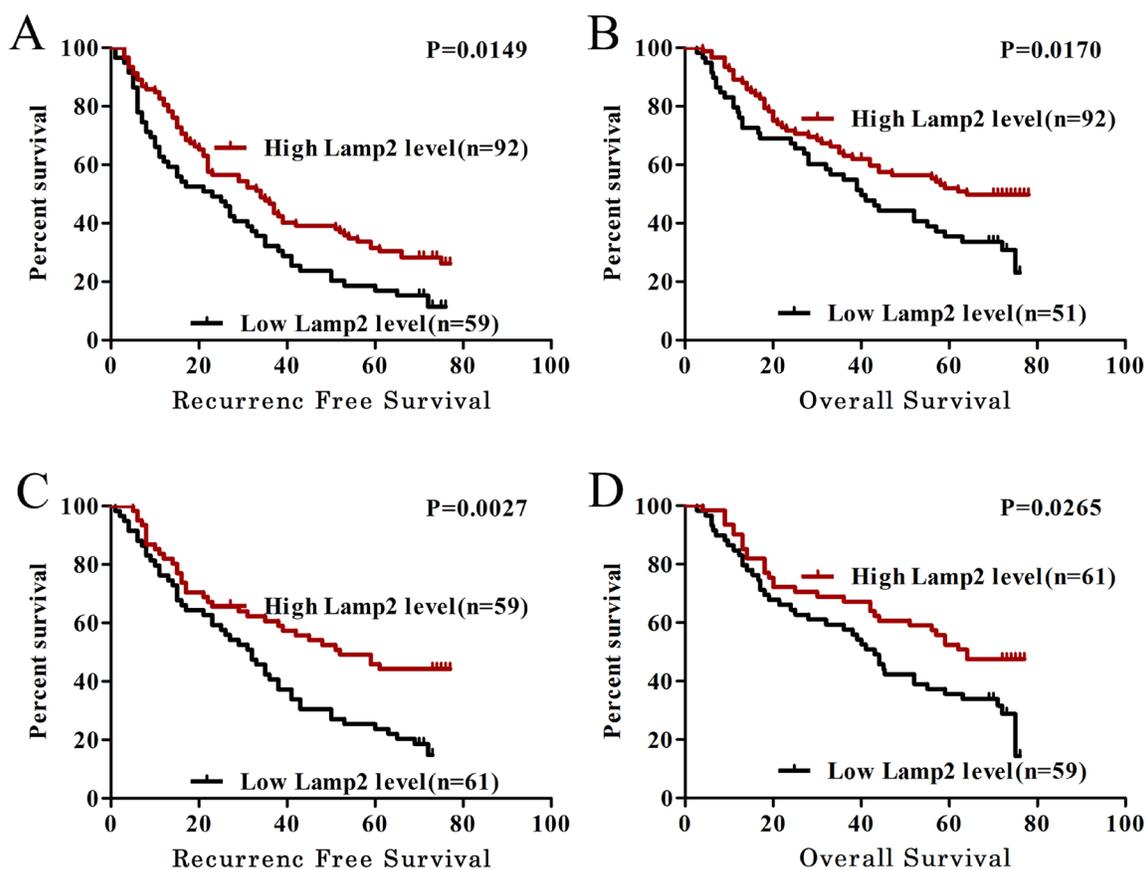


Lamp2 inhibits epithelial-mesenchymal transition by suppressing Snail expression in HCC

SUPPLEMENTARY MATERIALS



Supplementary Figure 1: (A and B) The low Lamp2 subgroup had a significantly shorter RFS and OS than the high Lamp2 subgroup in the tissue microarray cohort with a normal serum AFP level ($< 20 \mu\text{g/L}$). (C and D) The low Lamp2 subgroup had a significantly shorter RFS and OS than the high Lamp2 subgroup in the tissue microarray cohort with small hepatocellular carcinoma (SHCC, the diameter of HCC ≤ 5 cm). Statistical significance was assessed by two-sided log-rank tests.

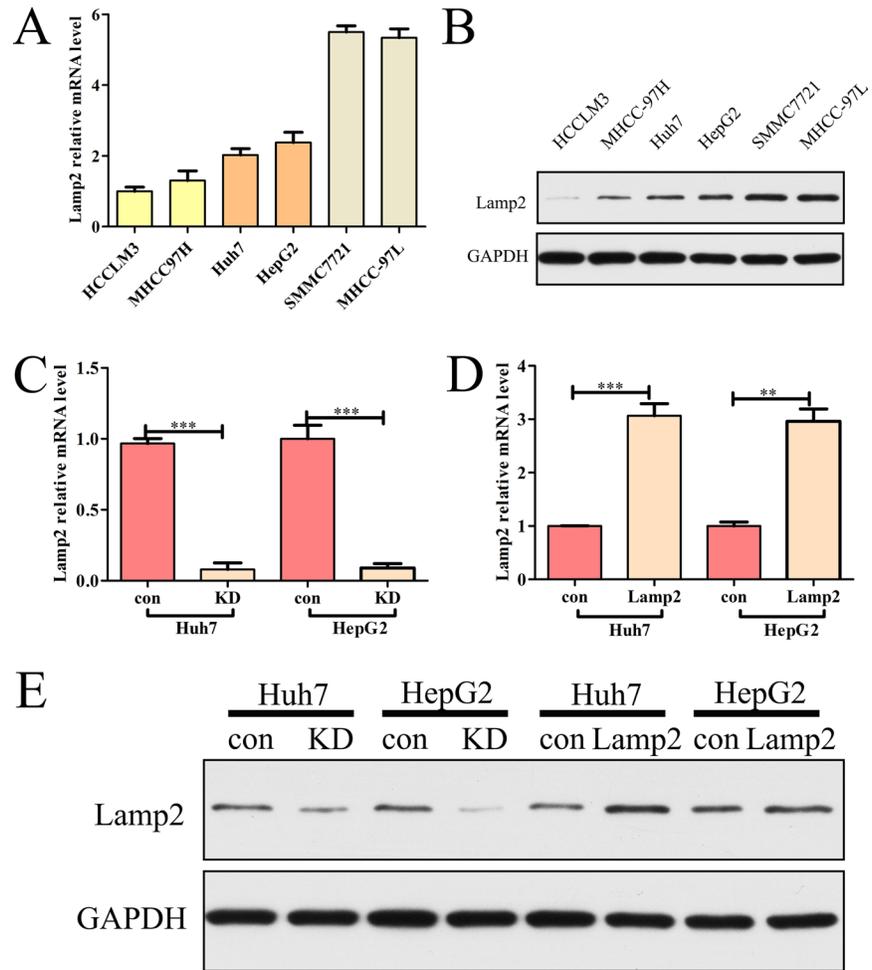


Fig-S2

Supplementary Figure 2: (A–B) qRT-PCR and Western blot analysis were performed to assess the expression of Lamp2 in several HCC cells. (C–E) qRT-PCR and Western blot analysis were performed to assess the knockdown and overexpression of Lamp2 in Huh7 and HepG2 cells.

Supplementary Table 1: Univariate analysis for RFS and OS

Variable	RFS			OS		
	Hazard Ratio	95% CI	P value	Hazard Ratio	95% CI	P value
Age, years, > 55 vs. ≤ 55	0.764	0.590–0.990	0.042	0.758	0.566–1.015	0.063
Sex, male vs. female	1.068	0.695–1.642	0.674	1.113	0.685–1.810	0.664
HBsAg, positive vs. negative	1.221	0.837–1.781	0.300	1.247	0.812–1.913	0.313
Liver cirrhosis, present vs. absent	1.127	0.867–1.467	0.371	1.401	1.036–1.895	0.029
AFP, µg/L	1.755	1.359–2.265	< 0.001	1.996	1.497–2.661	< 0.001
Edmondson-Steiner classification, III–IV vs. I–II	1.578	0.930–2.677	0.091	1.630	1.025–2.592	0.039
Microvascular invasion, present vs. absent	1.665	1.287–2.154	< 0.001	2.196	1.647–2.927	< 0.001
Tumor diameter, cm, > 5 vs. ≤ 5	2.540	1.937–3.331	< 0.001	1.573	1.174–2.109	0.002
Tumor number, multiple vs. solitary	3.122	2.365–4.121	< 0.001	2.451	1.816–3.307	< 0.001
Capsule formation, incomplete vs. complete	1.059	0.821–1.367	0.658	1.123	0.843–1.495	0.428
Lamp2 expression, low vs. high	1.831	1.417–2.366	< 0.001	2.181	1.632–2.916	< 0.001

Abbreviation: HBsAg, hepatitis B surface antigen; AFP, alpha fetoprotein.

Supplementary Table 2: Sequence of primers for real-time PCR

Gene Name	Forward primer (5' → 3')	Reverse primer (5' → 3')
Lamp2	GTGAGTTGTATTGGGGTTGATGTTA	CAATGATACTTGCTGCTGGCTAC
β-actin	CTACCTCATGAAGATCCTCACCGA	TTTCCTTAATGTCACGCACGATT
E-cadherin	CTTCCATGACAGACCCCTTAA	GAACGCATTGCCACATACT
ZO-1	GGACTCGTATCTGTATGTGGG	AGAGCCTAATCTGACCTATGAAC
N-cadherin	GTCCTGGTCTTCTTCTCCTCC	CCTGCTTATCCTTGTGCTGAT
Vimentin	TCGTGATGCTGAGAAGTTTCG	TCTGGATTCACTCCCTCTGGT
TGF-β	AGAGCAACACGGGTTTCAGGTA	TGGAAACCCACAACGAAATCT