

Supplemental Table 1. Correlation between ZIP4 positive density cell and clinicopathologic characteristics

Characteristics	ZIP4 positive cell density of cells (%)		<i>P</i>
	Low(n=20)	High(n=40)	
Age(years)			1.000
<50	9(45%)	18(45%)	
≥50	11(55%)	22(55%)	
Sex			1.000
Male	19	39	
Female	1	1	
Tumor size(cm)			0.022
<5	11(55%)	10(25%)	
≥5	9(45%)	30(75%)	
Tumor number	/		0.041
Single	13(65%)	14(35%)	
Multiple	7(35%)	24(65%)	
Distant metastasis			0.530
Yes	0(0%)	3(7.5%)	
No	20(100%)	37(92.5%)	
Tumor recurrence			0.033
Yes	3(15%)	17(42.5%)	
No	17(85%)	23(57.5%)	
Tumor differentiation			0.714
I	10(50%)	22(55%)	
II-III	10(50%)	18(45%)	
Liver cirrhosis			0.903
Yes	16(80%)	34(85%)	
No	4(20%)	6(15%)	
History of hepatitis			0.502
Yes	16(80%)	36(90%)	
No	4(20%)	4(10%)	
HBsAg		/	1.000
Negative	15(75%)	30(75%)	
Positive	5(25%)	10(25%)	
AFP level(ng/mL)			0.791
≤400	15(75%)	28(70%)	
>400	4(20%)	11(27.5%)	
AFP level(ng/mL)			0.588
≤20	5(25%)	13(32.5%)	
>20	14(70%)	26(65%)	
γ GT level			0.829
Normal	5(25%)	9(22.5%)	
Abnormal	15(75%)	31(77.5%)	

CEA level			1.000
Normal	16(80%)	34(85%)	
Abnormal	2(10%)	4(10%)	
CHE level			0.713
Normal	8(40%)	18(45%)	
Abnormal	12(60%)	22(55%)	
Ascites			0.022
Yes	5(25%)	1(2.5%)	
no	15(75%)	39(97.5%)	
TBIL level			0.550
Normal	5(25%)	13(32.5%)	
Abnormal	15(75%)	27(67.5%)	
ALB level			0.273
Normal	8(40%)	22(55%)	
Abnormal	12(60%)	18(45%)	
PT time			0.197
Normal	9(45%)	25(62.5%)	
Abnormal	11(55%)	15(37.5%)	
INR level			1.000
Normal	7(35%)	14(35%)	
Abnormal	13(65%)	26(65%)	
Serum creatinine			0.713
Normal	8(40%)	18(45%)	
Abnormal	12(60%)	22(55%)	
ALT level			0.043
Normal	9(45%)	8(20%)	
Abnormal	11(55%)	32(80%)	
DBIL level			0.846
Normal	7(35%)	13(32.5%)	
Abnormal	13(65%)	27(67.5%)	
TNM stage			0.044
I+II	13(65%)	15(37.5%)	
III+IV	7(35%)	25(62.5%)	
CTP			0.042
A	12(60%)	13(32.5%)	
B/C	8(40%)	27(67.5%)	

Abbreviation: ALT: alanine aminotransferase; CTP Child–Turcotte–Pugh scores. AFP: alpha fetoprotein; γGT: γ- glutamyl transferase; CEA: carcinoembryonic antigen; CHE: cholinesterase; TBIL: total bilirubin; ALB: Serum albumin; PT: prothrombintime; INR: International Normalized Ratio; ALT: alanine aminotransferase; DBIL: bilirubin

direct.

Chi-square tests for all other analyses.