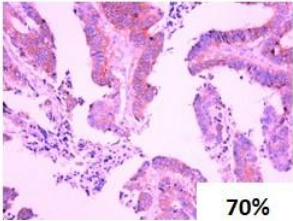
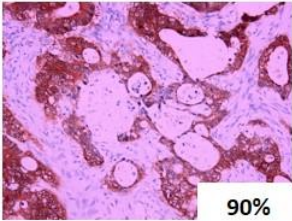
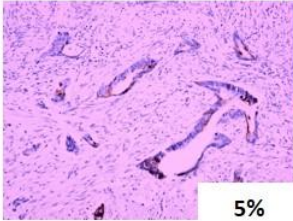
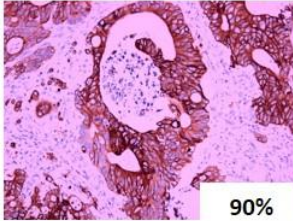
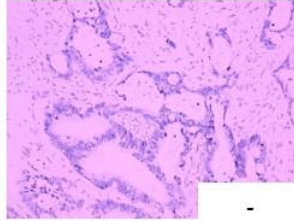
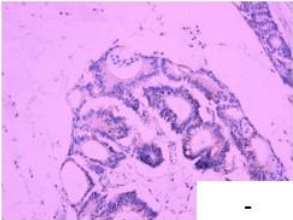
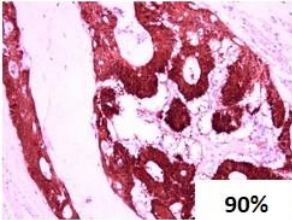
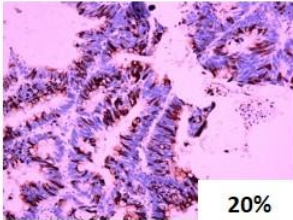
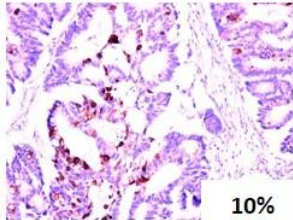
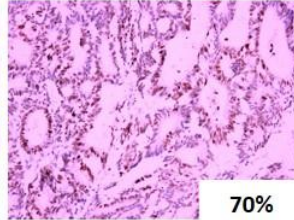
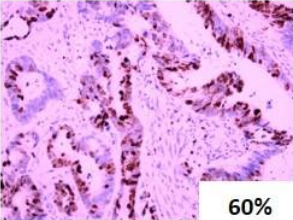
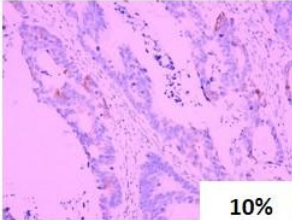
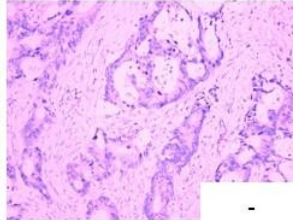
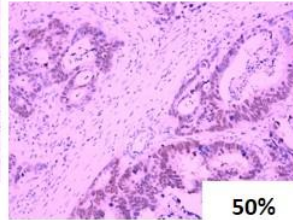
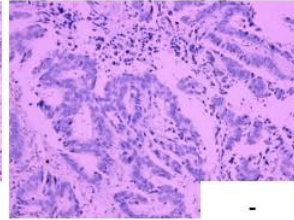
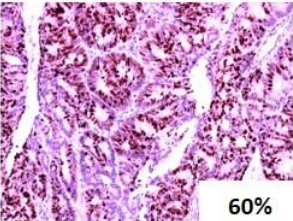
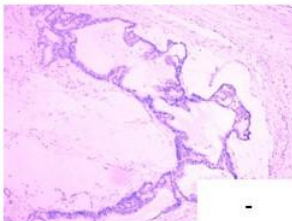
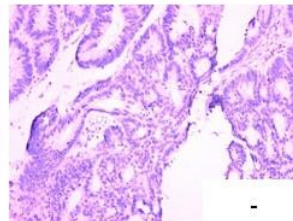
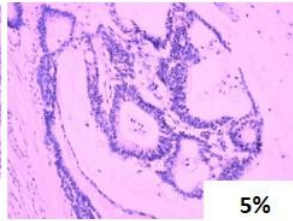
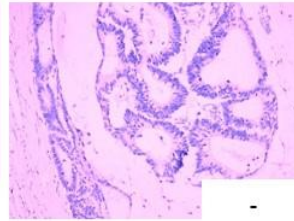


	EGFR	Villin	MUC2	CK20	P53
Tumor A	 70%	 90%	 5%	 90%	 -
Tumor B	 -	 90%	 20%	 10%	 70%
	Ki67	CK7	VEGF	CDX2	CR
Tumor A	 60%	 10%	 -	 50%	 -
Tumor B	 60%	 -	 -	 5%	 -

Supplementary Figure 1 Immunohistochemical (IHC) examinations (200×) of the tumor A was positive for EGFR (70%), Villin (90%), MUC2 (5%), CK20 (90%), Ki67 (60%), CK7 (10%) and CDX2 (50%) and negative for P53, VEGF and CR. Tumor B was positive for Villin (90%), MUC2 (20%), CK20 (10%), P53 (70%), Ki67 (60%), and CDX2 (5%) and negative for EGFR,CK7, VEGF and CR.

<i>PTCH1</i>	A1103T	40.5%	-	-	-	-	-	-	-	-	-	-
<i>TAP1</i>	P617T	1.2%	-	-	-	-	-	-	-	-	-	-
<i>WAS</i>	D292N	81.3%	-	-	-	-	-	-	-	-	-	-
<i>APC</i>	N2810D	-	20.4%	8%	10.8%	0.1%	0.1%	0.2%	7.2%	20.0%	16.1%	
<i>APC</i>	E941*	-	41.8%	18.5%	20.1%	0.3%	-	-	16.9%	48.5%	35.8%	
<i>APC</i>	I231Yfs*62	-	20.0%	21.6%	10.6%	0.6%	-	-	6.7%	18.4%	15.8%	
<i>TP53</i>	L32Sfs*11	-	64.8%	31.8%	32.5%	0.7%	0.3%	-	21.6%	60.1%	45.2%	
<i>NOTCH</i>	R1875W	-	13.8%	-	7.2%	0.3%	-	0.2%	6.6%	19.2%	12.9%	
2												
<i>LRP1B</i>	G978L	-	17.6%	-	9.6%	0.2%	-	-	6.6%	16.1%	13%	
<i>PDGFR-</i>	E964K	-	13.9%	-	6.4%	0.3%	-	-	5.3%	15.4%	12.6%	
β												
<i>PARK2</i>	c.529_534+2438d	-	9.6%	-	3.3%		-	-	2.8%	8.4%	7.0%	
	el											
<i>HGF</i>	V495F	-	-	-	-	-	-	-	4.7%	7.5%	4.0%	
<i>MITF</i>	R316S	-	-	-	-	-	-	-	4.8%	9.8%	4.6%	
<i>RAD51D</i>	G107*	-	-	-	-	-	-	-	5.2%	8.4%	5.7%	

<i>RET</i>	KIF5B-RET fusion	-	-	-	-	-	-	-	-	8.8%	18.5%	13.1%
<i>CHD4</i>	E161D	-	-	-	-	-	-	-	-	-	0.6%	0.1%
<i>FLT3</i>	A988S	-	-	-	-	-	-	-	-	-	0.4%	0.2%
<i>RHBDF2</i>	Y229D	-	-	-	-	-	-	-	-	-	35.5%	36.8%
<i>XPC</i>	D599N	-	-	-	-	-	-	-	-	-	0.8%	0.1%

FFPE: formalin-fixed, paraffin-embedded; "-": not detected; ctDNA: circulating tumor DNA.