



**Figure S1** Kaplan-Meier curve for OS based on total CTC counts. CTC, circulating tumor cell; OS, overall survival.

**Tables S1** Univariate analysis of Cox proportional hazards regression model

Variables	Univariate model, HR (95% CI)	P value
Gender		
Female	1.00 (Reference)	0.5
Male	0.86 (0.58–1.29)	
Tumor location		
Cecum	1.00 (Reference)	0.5
Ascending colon	0.94 (0.50–1.78)	
Descending colon	1.38 (0.54–3.49)	
Sigmoid colon	0.61 (0.34–1.09)	
Transverse colon	0.73 (0.33–1.63)	
Hepatic curve	0.57 (0.23–1.43)	
Splenic curve	0.90 (0.33–2.41)	
Rectum	0.67 (0.23–2.00)	
Tumor morphology		
Adenocarcinoma	1.00 (Reference)	0.4
Adenocarcinoma intestinal type	1.25 (0.76–2.03)	
Mucinous adenocarcinoma	1.34 (0.77–2.32)	
Signet ring cell carcinoma	0.32 (0.04–2.35)	
AJCC stage		
I	1.00 (Reference)	0.004
II	1.02 (0.11–8.52)	
III	4.71 (0.65–34.14)	
IV	5.82 (0.78–43.69)	
CEA ( $\geq 5$ vs. $< 5$ ng/mL)	3.77 (2.43–5.84)	$< 0.001$
Nodal status		
N0	1.00 (Reference)	0.09
N1	1.39 (0.84–2.31)	
N2	1.69 (1.05–2.71)	0.03
Age ( $\geq 70$ vs. $< 70$ years)	1.34 (0.90–1.99)	0.2
Total CTC ( $\geq 5$ vs. $< 5$ )	8.41 (4.22–16.75)	$< 0.001$

HR, hazard ratio; CI, confidence interval; AJCC, American Joint Committee on Cancer; CEA, carcinoembryonic antigen; CTC, circulating tumor cell.

**Table S2** Multivariate analysis of Cox proportional hazards regression model

Variables	Multivariate model, HR (95% CI)	P value
Nodal status		
N0	1 (Reference)	
N1	1.17 (0.68–1.99)	0.08
N2	1.30 (0.79–2.13)	0.05
AJCC stage		
I	1.00 (Reference)	
II	2.02 (0.22–18.89)	0.54
III	5.71 (0.78–41.95)	0.09
IV	8.31 (1.09–63.20)	0.04
Total CTC (number)	1.09 (1.02–1.17)	0.01
CEA (ng/mL)	1.20 (1.00–1.44)	0.05

HR, hazard ratio; CI, confidence interval; AJCC, American Joint Committee on Cancer; CTC, circulating tumor cell; CEA, carcinoembryonic antigen.

**Table S3** Correlation between the number of CTCs enriched by Ep-IMB and clinicopathologic parameters

Clinical pathological	<5 CTCs (n=51)	≥5 CTCs (n=59)	P value
Gender			0.764
Female	24 (47.1)	25 (42.4)	
Male	27 (52.9)	34 (57.6)	
Age (years)	71.00 (63.50, 75.50)	68.00 (58.50, 76.00)	0.263
AJCC stage			<0.001
I	3 (5.9)	0 (0.0)	
II	18 (35.3)	2 (3.4)	
III	18 (35.3)	19 (32.2)	
IV	12 (23.5)	38 (64.4)	
Tumor location			0.078
Cecum	13 (25.5)	12 (20.3)	
Ascending colon	5 (9.8)	14 (23.7)	
Descending colon	4 (7.8)	1 (1.7)	
Sigmoid colon	18 (35.3)	16 (27.1)	
Transverse colon	1 (2.0)	9 (15.3)	
Hepatic curve	5 (9.8)	4 (6.8)	
Splenic curve	3 (5.9)	2 (3.4)	
Rectum	2 (3.9)	1 (1.7)	
Histologic typing			0.697
Adenocarcinoma	28 (54.9)	31 (52.5)	
Adenocarcinoma intestinal type	13 (25.5)	18 (30.5)	
Mucinous adenocarcinoma	10 (19.6)	9 (15.3)	
Signet ring cell carcinoma	0 (0.0)	1 (1.7)	

Data are presented as n (%) or median (IQR). CTC, circulating tumor cell; Ep-IMB, EpCAM-coated immunoliposomal magnetic beads; EpCAM, epithelial cell adhesion molecule; AJCC, American Joint Committee on Cancer; IQR, interquartile range.