

Supplementary

Table S1 The relationship between serum *mSEPT9* and clinical characteristics of EGC patients

Variable	<i>mSEPT9</i>			P value
	Positive (%)	Negative (%)	Total	
ALL cases	21 (28.4)	53 (71.6)	74	
Gender				0.920
Male	13 (27.7)	34 (72.3)	47	
Female	8 (29.6)	19 (70.4)	27	
Age (years)				0.823
≥60	11 (28.2)	28 (71.8)	39	
<60	10 (28.6)	25 (71.4)	35	
Lauren classification				0.810
Intestinal type	14 (28.0)	36 (72.0)	50	
Diffuse type	4 (25.0)	12 (75.0)	16	
Hybrid	3 (37.5)	5 (62.5)	8	
Differentiation				0.132
Well differentiated	9 (50.0)	9 (50.0)	18	
Moderately differentiated	5 (21.7)	18 (78.3)	23	
Poorly differentiated	4 (19.0)	17 (81.0)	21	
Signet ring cell	3 (25.0)	9 (75.0)	12	
Location				0.602
Upper third	2 (50.0)	2 (50.0)	4	
Middle third	1 (14.3)	6 (85.7)	7	
Lower third	14 (29.2)	34 (70.8)	48	
EGJ	4 (26.7)	11 (73.3)	15	
Depth of invasion				0.764

Mucosa	12 (26.1)	34 (73.9)	46	
Submucosa	9 (32.1)	19 (67.9)	28	
Size of tumor (cm)				0.017
≤1.5	7 (26.9)	19 (73.1)	26	
1.5–3.0	12 (46.2)	14 (53.8)	26	
≥3.0	2 (9.1)	20 (90.9)	22	
Lymph node metastasis				0.841
Yes	2 (25.0)	6 (75.0)	8	
No	19 (28.8)	47 (71.2)	66	

Table S2 The relationship between serum *mRNF180* and clinical characteristics of EGC patients

Variable	<i>mRNF180</i>			P value
	Positive (%)	Negative (%)	Total	
ALL cases	24 (32.4)	50 (67.6)	74	
Gender				0.887
Male	16 (34.0)	31 (66.0)	47	
Female	8 (30.0)	19 (70.0)	27	
Age (years)				0.920
≥60	12 (30.8)	27 (69.2)	39	
<60	12 (34.3)	23 (65.7)	35	
Lauren classification				0.465
Intestinal type	16 (32.0)	34 (68.0)	50	
Diffuse type	4 (25.0)	12 (75.0)	16	
Hybrid	4 (50.0)	4 (50.0)	8	
Differentiation				0.621

Well differentiated	7 (38.9)	11 (61.1)	18	
Moderately differentiated	8 (34.8)	15 (65.2)	23	
Poorly differentiated	7 (33.3)	14 (66.7)	21	
Signet ring cell	2 (16.7)	10 (83.3)	12	
Location				0.306
Upper third	3 (75.0)	1 (25.0)	4	
Middle third	2 (28.6)	5 (71.4)	7	
Lower third	15 (31.3)	33 (68.7)	48	
EGJ	4 (26.7)	11 (73.3)	15	
Depth of invasion				0.080
Mucosa	11 (23.9)	35 (76.1)	46	
Submucosa	13 (46.4)	15 (53.6)	28	
Size of tumor (cm)				0.956
≤1.5	9 (34.6)	17 (65.4)	26	
1.5–3.0	8 (30.8)	18 (69.2)	26	
≥3.0	7 (31.8)	15 (68.2)	22	
Lymph node metastasis				0.920
Yes	3 (37.5)	5 (62.5)	8	
No	21 (31.8)	45 (68.2)	66	

Table S3 Clinical features of 74 EGC patients according to plasma CEA

Variable	CEA			P value
	≥5.0 ng/mL (%)	<5.0 ng/mL (%)	Total	
All cases	5 (7.0)	66 (93.0)	71	
Gender				0.522
Male	2 (4.4)	43 (95.6)	45	

Female	3 (11.5)	23 (88.5)	26	
Age (years)				0.371
≥60	4 (11.1)	32 (88.9)	36	
<60	1 (2.9)	34 (97.1)	35	
mSEPT9				0.298
Positive	3 (14.3)	18 (85.7)	21	
Negative	2 (4.0)	48 (96.0)	50	
RNF180				0.862
Positive	2 (8.3)	22 (91.7)	24	
Negative	3 (6.4)	44 (93.6)	47	
Lauren classification				0.504
Intestinal type	3 (6.4)	44 (93.6)	47	
Diffuse type	2 (12.5)	14 (87.5)	16	
Hybrid	0 (0)	8 (100)	8	
Differentiation				0.950
Well differentiated	1 (6.3)	15 (93.7)	16	
Moderately differentiated	2 (9.1)	20 (90.9)	22	
Poorly differentiated	1 (4.8)	20 (95.2)	21	
Signet ring cell	1 (8.3)	11 (91.7)	12	
Location				0.830
Upper third	0 (0)	4 (100)	4	
Middle third	1 (14.3)	6 (85.7)	7	
Lower third	3 (6.5)	43 (93.5)	46	
EGJ	1 (7.1)	13 (92.9)	14	
Depth of invasion				0.698
Mucosa	4 (9.1)	40 (90.9)	44	
Submucosa	1 (3.7)	26 (96.3)	27	

Size of tumor (cm)				0.529
≤1.5	3 (11.5)	23 (88.5)	26	
1.5–3.0	1 (4.2)	23 (95.8)	24	
≥3.0	1 (4.8)	20 (95.2)	21	
Lymph node metastasis				0.929
Yes	0 (0)	8 (100)	8	
No	5 (7.9)	58 (92.1)	63	

Table S4 Clinical features of 74 EGC patients according to plasma CA-199

Variable	CA-199			P value
	≥37.0 U/mL (%)	<37.0 U/mL (%)	Total	
All cases	3 (4.2%)	68 (95.8%)	71	
Gender				0.624
Male	1 (2.2)	44 (97.8)	45	
Female	2 (7.7)	24 (92.3)	26	
Age (years)				0.248
≥60	3 (8.3)	33 (91.7)	36	
<60	0 (0)	35 (100)	35	
mSEPT9				0.158
Positive	2 (9.5)	19 (90.5)	21	
Negative	0 (0)	49 (100)	49	
RNF180				0.543
Positive	1 (4.2)	23 (95.8)	24	
Negative	2 (4.3)	45 (95.7)	47	
Lauren classification				0.771
Intestinal type	2 (4.3)	45 (95.7)	47	

Diffuse type	1 (6.3)	15 (93.7)	16	
Hybrid	0 (0)	8 (100)	8	
Differentiation				0.440
Well differentiated	0 (0)	16 (100)	16	
Moderately differentiated	1 (4.5)	21 (95.5)	22	
Poorly differentiated	2 (9.5)	19 (90.5)	21	
Signet ring cell	0 (0)	12 (100)	12	
Location				0.854
Upper third	0 (0)	4 (100)	4	
Middle third	0 (0)	7 (100)	7	
Lower third	2 (4.3)	44 (95.7)	46	
EGJ	1 (7.1)	13 (92.9)	14	
Depth of invasion				0.662
Mucosa	1 (2.3)	43 (97.7)	44	
Submucosa	2 (7.4)	25 (92.6)	27	
Size of tumor (cm)				0.066
≤1.5	3 (11.5)	23 (88.5)	26	
1.5–3.0	0 (0)	24 (100)	24	
≥3.0	0 (0)	21 (100)	21	
Lymph node metastasis				0.00009
Yes	3 (27.3)	8 (72.7)	11	
No	0 (0)	60 (100)	60	

Table S5 Clinical features of 74 EGC patients according to plasma CA-724

Variable	CA-724			P value
	≥6.9 U/mL (%)	<6.9 U/mL (%)	Total	

All cases	9 (12.7)	62 (87.3)	71	
Gender				0.887
Male	6 (13.3)	39 (86.7)	45	
Female	3 (11.5)	23 (88.5)	26	
Age (years)				0.446
≥60	3 (8.3)	33 (91.7)	36	
<60	6 (17.1)	29 (82.9)	35	
mSEPT9				0.887
Positive	2 (9.5)	19 (90.5)	21	
Negative	7 (14.0)	43 (86.0)	50	
RNF180				0.729
Positive	4 (16.7)	20 (83.3)	24	
Negative	5 (10.6)	42 (89.4)	47	
Lauren classification				0.073
Intestinal type	5 (10.6)	42 (89.4)	47	
Diffuse type	1 (6.3)	15 (93.7)	16	
Hybrid	3 (37.5)	5 (62.5)	8	
Differentiation				0.661
Well differentiated	1 (6.3)	15 (93.7)	16	
Moderately differentiated	3 (13.6)	19 (86.4)	22	
Poorly differentiated	4 (19.0)	17 (81.0)	21	
Signet ring cell	1 (8.3)	11 (91.7)	12	
Location				0.887
Upper third	0 (0)	4 (100)	4	
Middle third	1 (14.3)	6 (85.7)	7	
Lower third	6 (13.0)	40 (87.0)	46	
EGJ	2 (14.3)	12 (85.7)	14	

Depth of invasion				0.427
Mucosa	4 (9.1)	40 (90.9)	44	
Submucosa	5 (18.5)	22 (81.5)	27	
Size of tumor (cm)				0.612
≤1.5	2 (7.7)	24 (92.3)	26	
1.5–3.0	4 (16.7)	20 (83.3)	24	
≥3.0	3 (14.3)	18 (85.7)	21	
Lymph node metastasis				0.559
Yes	0 (0)	8 (100)	8	
No	9 (14.3)	54 (85.7)	63	

Table S6 Clinical features of 74 EGC patients according to plasma CA-125

Variable	CA-125			P value
	≥30.0 U/mL (%)	<30.0 U/mL (%)	Total	
All cases	6 (9.1)	60 (90.9)	66	
Gender				0.841
Male	4 (9.8)	37 (90.2)	41	
Female	2 (8.0)	23 (92.0)	25	
Age (years)				0.729
≥60	4 (11.8)	30 (88.2)	34	
<60	2 (6.3)	30 (93.7)	32	
mSEPT9				0.583
Positive	3 (14.3)	18 (85.7)	21	
Negative	3 (6.7)	42 (93.3)	45	
RNF180				0.708
Positive	1 (4.8)	20 (95.2)	21	

Negative	5 (11.1)	40 (88.9)	45	
Lauren classification				0.767
Intestinal type	3 (7.1)	39 (92.9)	42	
Diffuse type	2 (12.5)	14 (87.5)	16	
Hybrid	1 (12.5)	7 (87.5)	8	
Differentiation				0.137
Well differentiated	1 (6.3)	15 (93.7)	16	
Moderately differentiated	1 (5.0)	19 (95.0)	20	
Poorly differentiated	4 (22.2)	14 (77.8)	18	
Signet ring cell	0 (0)	12 (100)	12	
Location				0.185
Upper third	1 (50.0)	1 (50.0)	2	
Middle third	0 (0)	7 (100)	7	
Lower third	4 (9.3)	39 (90.7)	43	
EGJ	1 (7.1)	13 (92.9)	14	
Depth of invasion				0.841
Mucosa	4 (9.8)	37 (90.2)	41	
Submucosa	2 (8.0)	23 (92.0)	25	
Size of tumor (cm)				0.433
≤1.5	2 (8.3)	22 (91.7)	24	
1.5–3.0	1 (4.3)	22 (95.7)	23	
≥3.0	3 (15.8)	16 (84.2)	19	
Lymph node metastasis				0.841
Yes	1 (14.3)	6 (85.7)	7	
No	5 (8.5)	54 (91.5)	59	