

Supplementary Table 1. Association of RNF43 and PWWP2B expression with clinicopathological characteristics in 34 gastric cancer patients

Clinicopathological characteristics	RNF43 low and PWWP2B low Fold change <2.0 (%)	RNF43 high and PWWP2B low Fold change >2.0 (%)	P-value
Age (yr)			
Median (range)	69.0 (44-87)	62.5 (61-64)	
Sex			
Male	17 (50)	2 (5.9)	
Female	15 (44.1)	0	
Tumor location			
Pylorus	1 (2.9)	0	1.000
Antrum	20 (58.8)	2 (5.9)	<0.001
Body	6 (17.7)	0	0.025
Pylorus ~ Antrum	1 (2.9)	0	1.000
Antrum ~ Body	4 (11.8)	0	0.114
Lauren's classification			
Diffuse	15 (44.1)	0	<0.001
Intestinal	6 (17.7)	1 (2.9)	0.105
Mixed	11 (32.4)	1 (2.9)	0.003
Cancer stage, TNM class			
I	1 (2.9)	0	1.000
II	9 (26.5)	0	0.027
III	22 (64.7)	0	<0.001
IV	0	2 (5.9)	0.493
Recurrence	11/11(100)	0	<0.001

FC, fold change

Supplementary Table 2. Clinical and pathological features of case with recurrence after the surgery for gastric cancer

Age, Sex,	Site	Surgery		Cancer stage	Lauren's classification	Diff.	Prognosis	
		RNF43 expression	PWWP2B expression				<i>After Surgery, mo</i>	
51, M	lower body~antrum	low	low	IIIB	mixed	PD	Recurrence, 10	Dead, 11
68, M	body	low	low	IIIA	diffuse	PD	Recurrence, 16	Dead, 27
66, F	antrum	low	low	IIA	diffuse	PD	Recurrence, 10	Dead, 13
82, F	antrum	low	low	IIIB	diffuse	SRC	Recurrence, 22	Dead, 29
74, M	pylorus	low	low	IIIB	mixed	PD	Recurrence, 11	Alive
54, M	antrum	low	low	IIIC	diffuse	PD	Recurrence, 15	Dead, 39
65, M	body	low	low	IIB	Intestinal	MD	Recurrence, 12	Alive
76, M	antrum	low	low	IIIC	mixed	MD	Recurrence, 29	Alive
75, F	antrum	low	low	IIIC	Intestinal	MD	Recurrence, 7	Dead, 16
45, F	body	low	low	IIIC	diffuse	PD	Recurrence, 25	Dead, 33
86, F	Antrum, pylorus	low	low	IIIA	Intestinal	MD	Recurrence, 3	Dead, 12

Diff, differentiation; mo, month

Supplementary Table 3. IC₅₀ of selected drugs in HAP1, HAP1 RNF43 knockout, HAP1 PWWP2B knockout, and SNU620 cells

Drug	HAP-1	PWWP2B	RNF43	SNU620
	IC ₅₀ (uM)			
Aprepitant	17.25	14.89	16.25	16.49
Docetaxel Trihydrate (nM)	19.83	19.31	17.19	12.27
Ethinyl Estradiol	18.85	15.88	16.42	14.89
Griseofulvin	16.00	13.46	15.56	39.78
INC280	39.13	37.56	28.08	<0.3
Pelitinib (EKB-569)	3.14	2.03	0.71	5.31
Pimobendan	13.23	11.81	12.38	17.95
Tepotinib (EMD1214063)	23.17	21.38	19.07	<0.3
Uprosertib (GSK2141795)	4.93	3.02	2.99	5.55