

Table S1 Frequency of KRAS mutations

Somatic mutation	PAAD	CRC	LUAD
G12C	2 (3.1)	4 (12.1)	8 (33.3)
G12D	41 (63.1)	21 (63.6)	16 (66.7)
G12V	11 (16.9)	3 (9.1)	–
G12R	10 (15.4)	5 (15.2)	–
G13D	1 (1.5)	–	–

Data are presented as n (%). KRAS, Kirsten rat sarcoma viral oncogene homolog; PAAD, pancreatic adenocarcinoma; CRC, colorectal cancer; LUAD, lung adenocarcinoma.

Table S2 Association analysis of KRAS^{G12C,G12D,G12V} mutations with clinicopathologic features of pancreatic adenocarcinoma, colorectal cancer and lung adenocarcinoma

Characteristics	PAAD				CRC				LUAD			
	Unaltered (N=65)	Altered (N=53)	P value	Method	Unaltered (N=7)	Altered (N=28)	P value	Method	Unaltered (N=11)	Altered (N=24)	P value	Method
Age, n (%)			0.43	Chi-square			>0.99	Fisher's exact test			0.28	Fisher's exact test
≤60 years	32 (49.2)	30 (56.6)			3 (42.9)	12 (42.9)			3 (27.3)	12 (50.0)		
>60 years	33 (50.8)	23 (43.4)			4 (57.1)	16 (57.1)			8 (72.7)	12 (50.0)		
Gender, n (%)			0.89	Chi-square			0.09	Fisher's exact test			0.72	Fisher's exact test
Female	29 (44.6)	23 (43.4)			1 (14.3)	16 (57.1)			5 (45.5)	13 (54.2)		
Male	36 (55.4)	30 (56.6)			6 (85.7)	12 (42.9)			6 (54.5)	11 (45.8)		
pM stage, n (%)			0.001	Fisher's exact test			0.36	Fisher's exact test			>0.99	Fisher's exact test
M0	64 (98.5)	42 (79.2)			6 (85.7)	27 (96.4)			10 (90.9)	20 (83.3)		
M1	1 (1.5)	11 (20.8)			1 (14.3)	1 (3.6)			1 (9.1)	4 (16.7)		
pN stage, n (%)			0.12	Chi-square			0.68	Fisher's exact test			0.22	Fisher's exact test
N0	35 (53.8)	21 (39.6)			3 (42.9)	16 (57.1)			10 (90.9)	16 (66.7)		
N1–N3	30 (46.2)	32 (60.4)			4 (57.1)	12 (42.9)			1 (9.1)	8 (33.3)		
pT stage, n (%)			0.19	Chi-square			0.50	Fisher's exact test			0.35	Fisher's exact test
T1 + T2	46 (70.8)	43 (81.1)			1 (14.3)	2 (7.1)			8 (72.7)	21 (87.5)		
T3 + T4	19 (29.2)	10 (18.9)			6 (85.7)	26 (92.9)			3 (27.3)	3 (12.5)		
pStage, n (%)			0.60	Chi-square			0.68	Fisher's exact test			0.17	Fisher's exact test
I + II	56 (86.2)	45 (84.9)			3 (42.9)	16 (57.1)			7 (63.6)	21 (87.5)		
III + IV	9 (13.8)	8 (15.1)			4 (57.1)	12 (42.9)			4 (36.4)	3 (12.5)		
Differentiation, n (%)			<0.001	Fisher's exact test			0.10	Fisher's exact test				
Low	24 (36.9)	2 (3.8)			2 (28.6)	1 (3.6)						
Middle-Well	41 (63.1)	51 (96.2)			5 (71.4)	27 (96.4)						
Smoking, n (%)											0.48	Fisher's exact test
N									8 (72.7)	14 (58.3)		
Y									3 (27.3)	10 (41.7)		

Data are presented as n (%). A P value less than 0.05 indicates a statistically significant difference. KRAS, Kirsten rat sarcoma viral oncogene homolog; PAAD, pancreatic adenocarcinoma; CRC, colorectal cancer; LUAD, lung adenocarcinoma.