Supplemental Table 1A. Association between PKCα and subtypes

Outcome	Median (Minimum, Maximum)				P-value[*]
	Luminal A (N=64)	Luminal B (N=66)	TNBC (N=44)	HER2 (N=24)	
PKCα (freq)	2.00 (0, 4)	2.00 (0, 4)	3.00 (0, 4)	2.50 (0, 4)	0.0004[†††]
PKCα (int)	2.00 (0, 4)	1.00 (0, 3)	2.00 (0, 4)	2.00 (0, 4)	0.0013[††]
PKCα (sum)	4.00 (0, 8)	3.00 (0, 7)	5.00 (0, 8)	4.50 (0, 8)	0.0002[†††]

*P-value is based on the Kruskal-Wallis Test. [†]P-value <0.05; [††]P-value <0.01; [†††]P-value <0.001.

Supplemental Table 1B. Association between PKCα and subtypes stratified by race

Race	Outcome	Median (Minimum, Maximum)				P-value[*]
		A (N=64)	B (N=66)	TNBC (N=44)	HER2 (N=24)	
AA	PKCα (freq)	2.0 (0, 4)	1.5 (0, 4)	3.0 (0, 4)	2.0 (0, 4)	0.0530
	PKCα (int)	2.0 (0, 4)	1.0 (0, 3)	2.0 (0, 4)	2.0 (0, 3)	0.0109[†]
	PKCα (sum)	4.0 (0, 8)	3.0 (0, 7)	5.0 (0, 8)	4.0 (0, 7)	0.0094[††]
Caucasian	PKCα (freq)	2.0 (0, 4)	2.0 (0, 4)	3.0 (0, 4)	3.0 (0, 4)	0.0093[††]
	PKCα (int)	1.5 (0, 4)	1.0 (0, 3)	2.0 (0, 3)	2.0 (0, 4)	0.1628
	PKCα (sum)	3.0 (0, 7)	3.0 (0, 7)	5.0 (0, 7)	5.0 (0, 8)	0.0276[†]

*P-value is based on the Kruskal-Wallis Test. [†]P-value <0.05; [††]P-value <0.01; [†††]P-value <0.001.

Supplemental Table 2. ERβ expression stratified by subtype

Outcome	Median (Minimum, Maximum)				P-value[*]
	Luminal A (N=58)	Luminal B (N=59)	TNBC (N=45)	HER2 + (N=31)	
ERβ freq (n)	2.00 (0, 4)	2.00 (0, 4)	0.00 (0, 4)	1.00 (0, 4)	0.082
ERβ int (n)	1.50 (0, 4)	2.00 (0, 4)	0.00 (0, 4)	1.00 (0, 3)	0.059
ERβ freq (c)	3.00 (2, 3)	3.00 (2, 4)	3.00 (1, 3)	3.00 (2, 3)	0.158
ERβ int (c)	1.50 (1, 3)	1.00 (1, 4)	1.00 (1, 3)	1.00 (1, 2)	0.698

*P-value based on the Kruskal-Wallis test. n: nuclear; c: cytoplasmic; TNBC: triple negative breast cancer

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