Supplementary Table 1. Results of Cox regression analysis modeling *PROS1* expression as a dose-response relationship.

Cohort	β_1	95% CI	Hazard ratio or Exp(β_1)	95% CI
TCGA GDC	-0.0002843	-0.0007051 to 0.0001187	0.9997	0.9993 to 1.000
TCGA PanCancer	-0.0004344	-0.001010 to 0.0001047	0.9996	0.9990 to 1.000
CPTAC Cell 2021	-0.1411	-0.8568 to 0.5439	0.8684	0.4245 to 1.723

Supplement Table 2. Heterogeneity table of pooled Spearman ρ-values.

	LOW *PROS1*			HIGH *PROS1*		
Gene Name	**Cochran's Q**	**Cochran's Q p-value**	**I^2 (%)**	**Cochran's Q**	**Cochran's Q p-value**	**I^2 (%)**
AXL	0.5799902	0.9009975	0	0.0126621	0.9996225	0
MERTK	0.2259198	0.9733003	0	0.0709145	0.995083	0
TYRO3	0.743866	0.8628409	0	0.1631218	0.9833109	0
CA9	0.6157581	0.8928156	0	0.147074	0.9856437	0
MKI67	4.1347485	0.2472765	27.444197	0.1399608	0.9866443	0
PECAM1	0.6539092	0.8839876	0	0.6754788	0.8789559	0
CASP9	2.5323369	0.4694754	0	0.28164	0.9634437	0
CD4	0.9304937	0.8180634	0	0.5804982	0.900882	0
CD8A	0.0139564	0.9995633	0	2.4483266	0.484702	0
STAT3	0.7730881	0.8558926	0	0.010919	0.9996975	0
IL1B	1.1673397	0.7608478	0	0.1028724	0.9914905	0
CDH1	1.3177628	0.7249195	0	0.9474427	0.8139663	0
CDH2	0.0948923	0.9924432	0	0.2410852	0.9706991	0
TNF	0.3634677	0.9476814	0	1.6630544	0.6451786	0
TGFB1	0.4028998	0.9396428	0	0.1534265	0.9847325	0
IL6	1.4881105	0.6850171	0	5.8530825	0.118981	48.744956
CASP3	0.5485613	0.9081003	0	0.0172722	0.9993994	0

NOTCH1	0.4956258	0.9198514	0	0.0555256	0.9965776	0
HIF1A	0.5863566	0.8995485	0	0.0494001	0.9971227	0
EPAS1	0.1907307	0.9790716	0	0.3285448	0.9545735	0
HIF3A	0.8354	0.8409824	0	0.2846982	0.9628802	0
VEGFA	0.0350648	0.9982719	0	0.1421232	0.9863424	0
SLC2A1	1.9256585	0.587979	0	0.4138029	0.9373766	0
PFKFB3	0.2233084	0.9737416	0	0.0536143	0.9967509	0
PFKFB4	0.2290861	0.9727626	0	0.0966955	0.992231	0
HK2	0.8405216	0.8397522	0	0.4204949	0.9359769	0
PDK1	1.1982788	0.7534172	0	0.0033551	0.9999484	0
SNAI1	0.0970551	0.9921885	0	0.0008365	0.9999936	0
SNAI2	1.5710292	0.6659764	0	0.0332857	0.9984009	0
TWIST1	0.0673849	0.9954407	0	0.2581456	0.9676978	0
CD44	0.6213187	0.8915351	0	3.9400686	0.2680088	23.859193
PROM1	0.0098237	0.9997418	0	5.719036	0.1261092	47.543607
CDK1	2.6580882	0.4473968	0	0.1888417	0.9793702	0
CDK2	0.1558492	0.9843807	0	0.1283476	0.988231	0
MYC	0.0264814	0.9988629	0	6.388162	0.094179	53.038135
E2F1	1.446273	0.6947248	0	2.2389197	0.5243231	0
VIM	0.8577345	0.8356136	0	2.8663076	0.4127005	0
MMP2	0.7636053	0.8581509	0	0.1310869	0.9878621	0
MMP7	0.0950445	0.9924254	0	1.5909624	0.6614408	0
MMP9	0.2183241	0.9745783	0	1.0306154	0.7938445	0
PIK3CA	0.9382911	0.8161788	0	1.3317568	0.7216063	0
AKT1	0.0252617	0.9989402	0	0.4294171	0.9341008	0
MAPK1	1.5366136	0.6738461	0	0.9801081	0.8060651	0
PTK2	0.1913297	0.9789767	0	0.1290506	0.9881367	0
KRAS	1.8195787	0.6106837	0	4.3309637	0.2278727	30.731353
NRAS	0.0570311	0.996439	0	0.0472679	0.9973053	0
HRAS	0.2554662	0.9681743	0	0.1923951	0.9788076	0
SRC	0.1270204	0.9884085	0	0.2309908	0.9724377	0

Supplement Table 3. Number of patients in each cohort, the age range of patients in the cohort, and the number of female and male patients in each cohort.

Cohort	**Number**	**Age Range**	**Sex**	
			Female	**Male**

TCGA GDC	143	41-84	63	80
TCGA PanCancer	142	48-81	64	78
CPTAC Cell 2021	112	43-80	54	58