

A)

cancer	all n	all rho	all p	TP53wt n	TP53wt rho	TP53wt p	TP53mut n	TP53mut rho	TP53mut p
Adrenocortical carcinoma (ACC)	10	0.55	1.04e-01	10	0.55	1.04e-01	NA	NA	NA
Bladder Urothelial Carcinoma (BLCA)	228	0.51	7.89e-17	134	0.45	3.86e-08	94	0.43	1.73e-05
Breast invasive carcinoma (BRCA) Basal	42	0.57	9.54e-05	10	0.62	6.02e-02	32	0.57	7.41e-04
Breast invasive carcinoma (BRCA) Her2	44	0.15	3.39e-01	12	0.22	4.85e-01	32	0.07	7.10e-01
Breast invasive carcinoma (BRCA) LumA	199	0.34	8.22e-07	177	0.34	2.96e-06	22	0.49	2.31e-02
Breast invasive carcinoma (BRCA) LumB	70	0.17	1.57e-01	61	0.15	2.53e-01	9	0.17	6.78e-01
Cervical squamous cell carcinoma and endocervical adenocarcinoma (CESC)	156	0.14	8.37e-02	145	0.16	5.45e-02	11	-0.05	9.03e-01
Head and Neck squamous cell carcinoma (HNSC)	313	0.54	8.38e-25	123	0.61	0.00e+00	190	0.45	9.68e-11
Kidney Chromophobe (KICH)	5	0.60	3.50e-01	5	0.60	3.50e-01	NA	NA	NA
Kidney renal clear cell carcinoma (KIRC)	142	0.35	2.06e-05	141	0.34	4.41e-05	NA	NA	NA
Kidney renal papillary cell carcinoma (KIRP)	167	0.45	9.16e-10	163	0.45	2.04e-09	4	0.80	3.33e-01
Brain Lower Grade Glioma (LGG)	271	0.63	9.92e-32	76	0.73	0.00e+00	195	0.39	2.26e-08
Liver hepatocellular carcinoma (LIHC)	153	0.56	3.64e-14	114	0.52	4.18e-09	39	0.45	3.95e-03
Lung adenocarcinoma (LUAD)	234	0.28	1.15e-05	128	0.36	2.87e-05	106	0.23	1.91e-02
Lung squamous cell carcinoma (LUSC)	139	0.23	6.74e-03	42	0.04	7.93e-01	97	0.33	9.91e-04
Ovarian serous cystadenocarcinoma (OV)	56	0.23	8.37e-02	10	0.84	4.46e-03	46	0.15	3.31e-01
Prostate adenocarcinoma (PRAD)	413	0.47	1.33e-23	375	0.46	6.13e-21	38	0.45	4.58e-03
Skin Cutaneous Melanoma (SKCM)	165	0.65	5.43e-21	152	0.61	7.85e-17	13	0.43	1.40e-01
Stomach adenocarcinoma (STAD)	225	0.37	8.23e-09	145	0.37	5.71e-06	80	0.42	1.03e-04
Thyroid carcinoma (THCA)	469	0.46	1.07e-25	467	0.46	4.06e-26	NA	NA	NA

B)

TP53 status ● wt ● mut

