

**Supplementary table 8. The validation of the prognostic-immune-score in GEO datasets**

Cancer type	GEO datasets	Number	HR (95% CI) <sup>a</sup>	P value
ESCA	GSE53625	179	1.50 (1.02-2.19)	0.038
STAD	GSE26253	432	1.77 (1.30-2.39)	<0.001
LIHC	GSE76427	115	1.07 (0.61-1.90)	0.809
PAAD	GSE62452	69	0.71(0.41-1.35)	0.240
COAD+READ	GSE38832	92	8.25(1.02-66.86)	0.010
Total		887	1.52(1.24-1.85)	<0.001

a: The patients were divided into high PIS group and low PIS group.