

Figure S1 Co-expression network of the DEGs in PRGs. Full names of the DEGs in PRGs showing in the Co-expression network: BAK1, BCL2 Antagonist/Killer 1; BAK, BCL2 Associated X, Apoptosis Regulator; CASP3, Caspase 3; CHMP2A, Charged Multivesicular Body Protein 2A; CHMP2B, Charged Multivesicular Body Protein 2B; CHMP4B, Charged Multivesicular Body Protein 4B; CHMP4C, Charged Multivesicular Body Protein 4C; CHMP7, Charged Multivesicular Body Protein 7; GSDMD: Gasdermin D; GSDME, Gasdermin E; GZMB, Granzyme B; HMGB1, High Mobility Group Box 1; IL18, Interleukin 18; IL1A, Interleukin 1A; IL1B, Interleukin 1B; TP63, Tumor Protein P63; AIM2, Absent In Melanoma 2; CASP6, Caspase 6; CASP9, Caspase 9; GPX4, Glutathione Peroxidase 4; GSDMB, Gasdermin B; GSDMC, Gasdermin C; IL6, interleukin 16; NLRP2, NLR Family Pyrin Domain Containing 2; NLRP6, NLR Family Pyrin Domain Containing 6; NLRP7, NLR Family Pyrin Domain Containing 7; NOD1, Nucleotide Binding Oligomerization Domain Containing 1; NOD2, Nucleotide Binding Oligomerization Domain Containing 2; PYCARD, PYD And CARD Domain Containing; TIRAP, TIR Domain Containing Adaptor Protein.

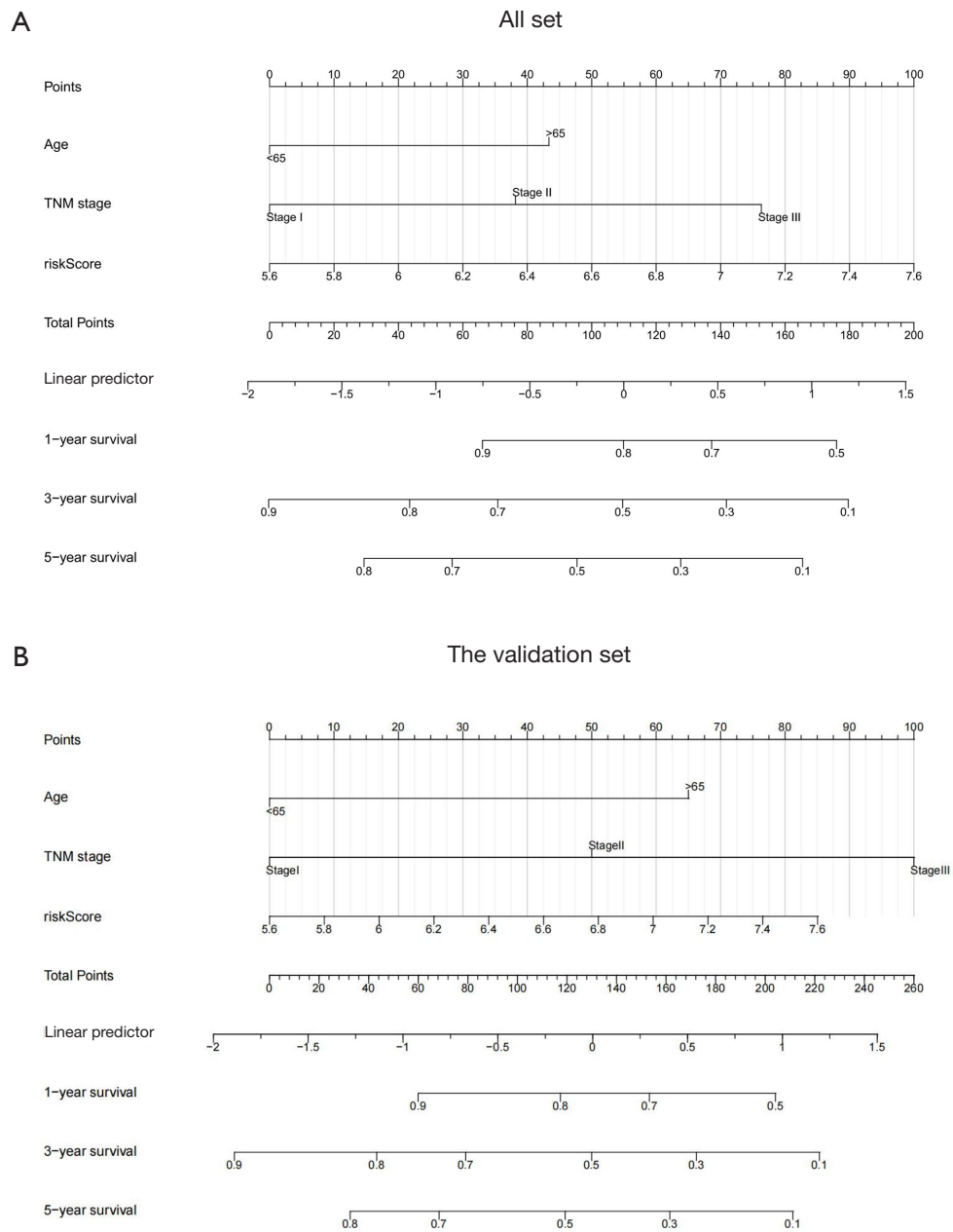


Figure S2 Nomograms based on independent prognostic factors in all set (A) and validation set (B).

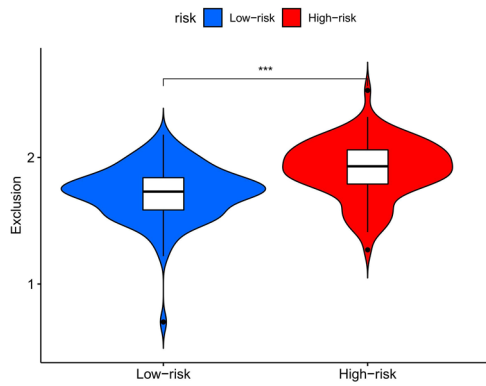


Figure S3 Relationship with exclusion score and riskscore suggested that patients in the high-risk group have a higher probability of immune evasion. ***, stand for significance at $P < 0.001$.

Table S1 Pyroptosis-related genes list

AIM2
 BAK1
 BAX
 CASP1
 CASP3
 CASP4
 CASP5
 CASP6
 CASP8
 CASP9
 CHMP2A
 CHMP2B
 CHMP3
 CHMP4A
 CHMP4B
 CHMP4C
 CHMP6
 CHMP7
 CYCS
 ELANE
 GPX4
 GSDMA
 GSDMB

Table S1 (continued)

GSDMC
 GSDMD
 GSDME
 GZMA
 GZMB
 HMGB1
 IL18
 IL1A
 IL1B
 IL6
 IRF1
 IRF2
 NLRC4
 NLRP1
 NLRP2
 NLRP3
 NLRP6
 NLRP7
 NOD1
 NOD2
 PJKV
 PLCG1
 PRKACA
 PYCARD
 SCAF11
 TIRAP
 TNF
 TP53
 TP63

Table S1 (continued)

Table S2 Randomisation of 179 patients in GSE53625

GSM1296992
GSM1296994
GSM1297248
GSM1297044
GSM1297244
GSM1297048
GSM1297090
GSM1297024
GSM1297296
GSM1297290
GSM1297142
GSM1297198
GSM1296956
GSM1297228
GSM1297056
GSM1297060
GSM1297006
GSM1297030
GSM1297020
GSM1297034
GSM1297220
GSM1297086
GSM1297180
GSM1297226
GSM1297028
GSM1297250
GSM1297100
GSM1297200
GSM1297266
GSM1296986
GSM1297218
GSM1297118
GSM1297222
GSM1297196
GSM1296982
GSM1297212

Table S2 (*continued*)

Table S2 (*continued*)

GSM1297158
GSM1297294
GSM1297258
GSM1297292
GSM1297214
GSM1297012
GSM1297172
GSM1297284
GSM1297046
GSM1297122
GSM1297022
GSM1297032
GSM1296962
GSM1296990
GSM1297188
GSM1296988
GSM1296960
GSM1297192
GSM1297108
GSM1296964
GSM1297216
GSM1297104
GSM1297112
GSM1297268
GSM1297280
GSM1297148
GSM1297018
GSM1297008
GSM1297176
GSM1297182
GSM1296976
GSM1297088
GSM1297052
GSM1297050
GSM1297238
GSM1297286

Table S2 (*continued*)

Table S2 (*continued*)

GSM1297076
GSM1297096
GSM1297230
GSM1297256
GSM1297288
GSM1297042
GSM1297038
GSM1297282
GSM1297132
GSM1297174
GSM1297106
GSM1297252
GSM1297210
GSM1297116
GSM1297138
GSM1297058
GSM1297002
