TableS3. The correlation between gene signature and clinical features. P values were shown in ().

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gene | OS（Days) | Survival status\* | Grade | Age | Stage | Debulking status# |
| IL27RA | 292.745(0.427) | -0.515(0.607) | 0.635(0.528) | -1.14(0.255) | 0.576(0.750) | -0.657(0.512) |
| GAL | 283.492(0.580) | 0.81(0.419) | -0.559(0.579) | 0.613(0.540) | 0.555(0.758) | -0.27(0.788) |
| RBP1 | 286.328(0.533) | 0.122(0.903) | 0.449(0.656) | 0.896(0.371) | 0.364(0.834) | -2.242(0.026) |
| ANGPT4 | 299.839(0.318) | -0.5830.560) | -1.75(0.082) | -1.509(0.133) | 1.408(0.495) | 0.708(0.481) |
| EBI3 | 288.495(0.497) | 1.797(0.073) | -1.132(0.263) | -0.66(0.510) | 1.472(0.479) | 0.62(0.536) |
| C5AR1 | 288.347(0.500) | -0.748(0.455) | -1.958(0.056) | -0.082(0.935) | 0.058(0.971) | 1.423(0.157) |
| MSR1 | 282.42(0.598) | 1.313(0.190) | -1.23(0.225) | -0.001(1.000) | 0.033(0.984) | 1.367(0.173) |
| HCK | 280.37(0.631) | 1.586(0.114) | -1.179(0.245) | -0.834(0.405) | 2.565(0.277) | 0.672(0.502) |
| SYK | 292.268(0.435) | -0.632(0.528) | 0.444(0.659) | 2.899(0.004) | 0.144(0.931) | -1.258(0.211) |
| CYBB | 286.435(0.532) | 1.396(0.164) | -1.423(0.162) | 0.122(0.903) | 1.624(0.444) | 0.86(0.391) |
| PI3 | 297.478(0.353) | -0.863(0.389) | -0.865(0.392) | -1.799(0.073) | 0.222(0.895) | 1.128(0.261) |
| CD86 | 284.106(0.570) | 1.718(0.087) | -1.747(0.087) | 0.331(0.741) | 0.638(0.727) | 1.12(0.264) |
| FABP4 | 285.385(0.549) | -0.934(0.351) | -0.522(0.604) | -1.583(0.115) | 8.308(0.016) | 2.408(0.017) |
| CX3CR1 | 293.688(0.412) | -1.334(0.183) | -0.177(0.860) | 0.782(0.435) | 1.316(0.518) | 0.248(0.805) |
| ITGB2 | 292.453(0.432) | 0.954(0.341) | -0.638(0.527) | 0.816(0.415) | 1.676(0.433) | 0.488(0.626) |
| PENK | 286.231(0.535) | -0.214(0.830) | 0.837(0.407) | -0.923(0.357) | 1.178(0.555) | -0.584(0.560) |
| PRLR | 278.82(0.656) | -0.075(0.940) | 0.35(0.728) | -0.532(0.595) | 1.399(0.497) | -0.26(0.795) |
| RARG | 289.072(0.488) | -1.699(0.091) | -0.705(0.484) | 1.001(0.318) | 3.506(0.173) | -0.462(0.644) |
| ESM1 | 295.102(0.390) | 1.531(0.127) | 3.772(4.298e-04) | 0.613(0.540) | 13.886(9.655e-04) | -1.537(0.126) |
| BCL10 | 297.124(0.358) | 1.062(0.289) | 0.214(0.831) | 3.432(6.797e-04) | 2.131(0.345) | -0.6(0.549) |
| OBP2A | 290.971(0.456) | -0.294(0.769) | -0.329(0.743) | 1.488(0.138) | 0.223(0.894) | -0.135(0.893) |
| Riskscore | 284.685(0.561) | -1.381(0.169) | -1.524(0.134) | -2.36(0.019) | 6.066(0.048) | 1.697(0.092) |

\*, 0 represents for alive while 1 is for dead. #, 0 represents for sub-optimal debulking while 1 is for optimal debulking status.