



PitNET_165_SF1/NULL^{enrich}_Endothelial

е

PDL1 IHC











PitNET_078_TSH/Silent PIT1enich_Immune-exhausted PitNET_055_TSH/Silent PIT1enich_Immune-exhausted











Spearman's correlation in 194 PitNETs



PitNET_200_EMT^{PRO}_CD4+ T cell infiltration

Supplementary information, Fig. S8 Immune landscape in PitNETs, related to Fig. 5.

a Heatmap showing the comparison between immune clusters (columns) with proteomic clusters (rows). Each row sums to one, with different entries showing the proportion of tumors allocated to different immune clusters.

b Heatmap showing the comparison between immune clusters (columns) with TF lineages (rows). Each row sums to one, with different entries showing the proportion of tumors allocated to different immune clusters.

c Boxplot showing the mRNA expression of *PDL1* among the four immune clusters. Kruskal-Wallis test was used to test if any of the differences among the subgroups were statistically significant. Wilcoxon rank-sum test was used to estimate the significance of two subgroups, *P < 0.01, **P < 0.001.

d Boxplot showing the mRNA expression of PDL1 among the ten clinicopathological subtypes. Kruskal-Wallis test was used to test if any of the differences among the subgroups were statistically significant. Wilcoxon rank-sum test was used to estimate the significance of two subgroups, **P < 0.01, ***P < 0.001.

e Representative graphs of PDL1 staining in SF1/NULL^{enrich}, silent TPIT^{enrich}, EMT^{PRO}, GH^{enrich}, and TSH/silent PIT1^{enrich} clusters. Scale bar is 50 μm.

f Boxplot showing the immune score among four proteomic clusters within PIT1 lineage. Kruskal-Wallis test was used to test if any of the differences among the subgroups were statistically significant. Wilcoxon rank-sum test was used to estimate the significance of two subgroups, ***P < 0.001.

g Volcano plot showing the Spearman's correlation (*x*-axis) versus *P* value (*y*-axis) between immune score and genes at the mRNA level.

h Spearman's correlation among JAK1, JAK3, STAT1 and STAT6 at the mRNA, protein and phosphorylation levels in 194 PitNETs (*P < 0.05, **P < 0.01, ***P < 0.001).