SUPPLEMENTARY FIGURES

Supplementary Figure 1. Correlation analysis between the PTPN11 gene expression and TMB and MSI in human pan-cancer. (A) Relationship between the PTPN11 gene expression and TMB in THYM, LAML, LUAD, SKCM, UVM, and LGG. (B) Relationship between the PTPN11 gene expression and MSI in ACC, MESO, LUSC, READ, UCEC, TGCT, OV, COAD, LUAD, DLBC, and SKCM. Correlation analysis was conducted by Spearman’s method.

Supplementary Figure 2. Correlation analysis of PTPN11 expression with common immune checkpoints in human pan-cancer.
**Abbreviations**

**TCGA cancer abbreviations**

ACC: Adrenocortical carcinoma; BLCA: Bladder Urothelial Carcinoma; BRCA: Breast invasive carcinoma; CESC: Cervical squamous cell carcinoma and endocervical adenocarcinoma; CHOL: Cholangiocarcinoma; COAD: Colon adenocarcinoma; DLBC: Lymphoid Neoplasm Diffuse Large B-cell Lymphoma; ESCA: Esophageal carcinoma; GBM: Glioblastoma multiforme; HNSC: Head and Neck squamous cell carcinoma; KICH: Kidney Chromophobe; KIRC: Kidney renal clear cell carcinoma; KIRP: Kidney renal papillary cell carcinoma; LAML: Acute Myeloid Leukemia; LGG: Lower Grade Glioma; LIHC: Liver hepatocellular carcinoma; LUAD: Lung adenocarcinoma; LUSC: Lung squamous cell carcinoma; MESO: Mesothelioma; OV: Ovarian serous cystadenocarcinoma; PAAD: Pancreatic adenocarcinoma; PCPG: Pheochromocytoma and Paraganglioma; PRAD: Prostate adenocarcinoma; READ: Rectum adenocarcinoma; SARC: Sarcoma; SKCM: Skin Cutaneous Melanoma; STAD: Stomach adenocarcinoma; TGCT: Testicular Germ Cell Tumor; THCA: Thyroid carcinoma; THYM: Thymoma; UCEC: Uterine Corpus Endometrial Carcinoma; UCS: Uterine Carcinosarcoma; UVM: Uveal Melanoma.