

data were separated by tumor (T) and stroma (S) regions. The color gradient indicates the \log_2 -transformed odds ratio (red, enrichment; blue, depletion), and sizes indicate the Bonferroni-corrected $-\log_{10}(P \text{ value})$. **g**, Cell type composition based on scRNA-seq data for CD45⁻ and CD45⁺ samples. Upper panels, absolute and relative cell type numbers; lower panels, box plot distributions of sample ranks with respect to tumor site. **h**, Cell type composition based on H&E with lymphocyte ranks in tumor and stroma. Panels are analogous to those in **g**. **i**, Cell type composition based on mpIF with CD8⁺ T cell ranks in tumor and stroma. Panels are analogous to those in **g**. For **c** and **g–i**, violin plots and box plots are shown as the median, top and bottom quartiles; whiskers correspond to 1.5 \times interquartile range (IQR). **P*

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