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**Supplementary Figure S1: H&E staining of the two TMAs.**

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**Supplementary Figure S2: HCC-specific OS and DFS of LAG-3+cells levels plus**

### PD-L1 status on TC in the combined cohorts.

### Combination of the densities of LAG-3+cells and PD-L1 status on TC in relation to HCC-specific OS (A) and DFS (B) using Kaplan-Meier analysis. Differences in survival were analyzed by log-rank test. Others: the patients with low densities of LAG-3+cells and negative PD-L1 status on TC or high densities of LAG-3+cells and positive PD-L1 status on TC. The number of patients at risk was reported. Abbreviations: TC, tumor cells; IC, immune cells.