

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Clinical characteristics of patients and summary of HBV reads and infected cells in tissue by Viral-Track. Related to Figure 1.

File name: Supplementary Data 2

Description: Signature-related gene sets used in macrophage polarization. Related to Figure 3.

File name: Supplementary Data 3

Description: Differentially expressed genes between HBV and non-HBV myeloid cells. Related to Figure 3.

File name: Supplementary Data 4

Description: Differentially expressed genes between infected and bystander myeloid cells. Related to Figure S7.

File name: Supplementary Data 5

Description: Gene sets used to assign metabolic and signaling pathways along pseudotime in CD8+ T cells. Related to Figure 5.

File name: Supplementary Data 6

Description: Differentially expressed genes between HBV and non-HBV CD8+ T cells. Related to Figure 6.

File name: Supplementary Data 7

Description: Differentially expressed genes between MDK^{high} and MDK^{low} CD8⁺ T cells.

Related to Figure 6.

File name: Supplementary Data 8

Description: Differentially expressed genes between HBV and non-HBV malignant cells.

Related to Figure 7.

File name: Supplementary Data 9

Description: Signature-related gene sets used in malignant cell analysis. Related to Figure 7.

File name: Supplementary Data 10

Description: Sheet 1: Significant ligand–receptor interactions in HBV HCC. Related to

Figure 8. Sheet 2: HBV HCC ligand–receptor interaction statistics. Related to Figure 8.

File name: Supplementary Data 11

Description: Sheet 1: Significant ligand–receptor interactions in non-HBV HCC. Related to

Figure 8. Sheet 2: non-HBV HCC ligand–receptor interaction statistics. Related to Figure 8.

File name: Supplementary Data 12

Description: Numerical source Data related to Figures 3G, 4D, 4I, 4J, 7F and Supplementary Figures 6F, 10I, and 13C