Supplementary Figure 1. Identification of OT-I mice and enrichment of CD8⁺ T cells from OT-I.

Blood was drawn intravenously from OT-I mice. Following direct blood staining with α-CD8⁺-APC, and α-Vβ5.1-PE as well as α-Vα2 TCR-FITC to mark the OT-I specific transgenic α and β chain of cytotoxic T
cells, cell surface expression was determined by FACS analysis. Analysis was started with the FSC/SSC dot plot to set a marker-unspecific lymphocyte gate (left panel in (A) and (B)). Cells in this lymphocyte gate were used to identify cytotoxic T cells, known to express CD8\(^+\) (CD8\(^+\)-APC) as shown in the middle panel of (A) and (B). Finally, we utilized these CD8\(^+\) cells to determine whether these cells express the transgenic TCR (V\(\beta\)5.1/V\(\alpha\)2). The result is depicted in the right panel of (A) and (B), showing that all CD8\(^+\) T cells express V\(\beta\)5.1/V\(\alpha\)2 in (A) and only less in (B). Following single cell preparation and erythrolysis, CD8\(^+\) T cells were enriched (C) as described in “Methods” by the Dynabeads FlowComp Mouse CD8 kit. Enrichment was from around 25% (as shown in the left panel) of splenocytes to approximately 93% following purification (upper right panel). Roughly 1% of CD8\(^+\) T cells remain in the flow through (lower right panel). A representative isolation is shown.
Supplementary Figure 2. Schematic representation of the used experimental animal approaches. (A) Organ damage is determined following twenty-four hours h after CLP operation. (B) Survival of mice is analyzed for seventy-two hours following CLP-operation and, as indicated, ten days after hydrodynamic injection (HDI) of a transposon-based sleeping beauty system. (C) As a pharmacological setup the effect of recombinant PD-L1-Fc, directly applied following CLP operation, is determined twenty-four hours after CLP.
Supplementary Figure 3. Functional expression of PD-L1 in Hepa1-6 cells. (A) and (B) Hepa1-6 cells were lentivirally transduced as described in “Methods” with a control vector (CV) and a vector encoding for PD-L1 coupled to EGFP (PD-L1 EGFP). EGFP expression was determined by (A) FACS analyses and (B) Western blotting, which was stained for EGFP (left panel) and PD-L1 (right panel) expression.