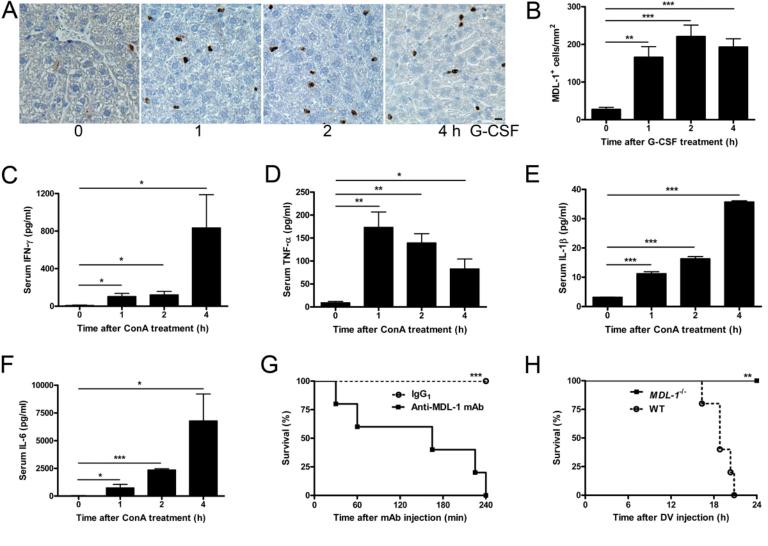
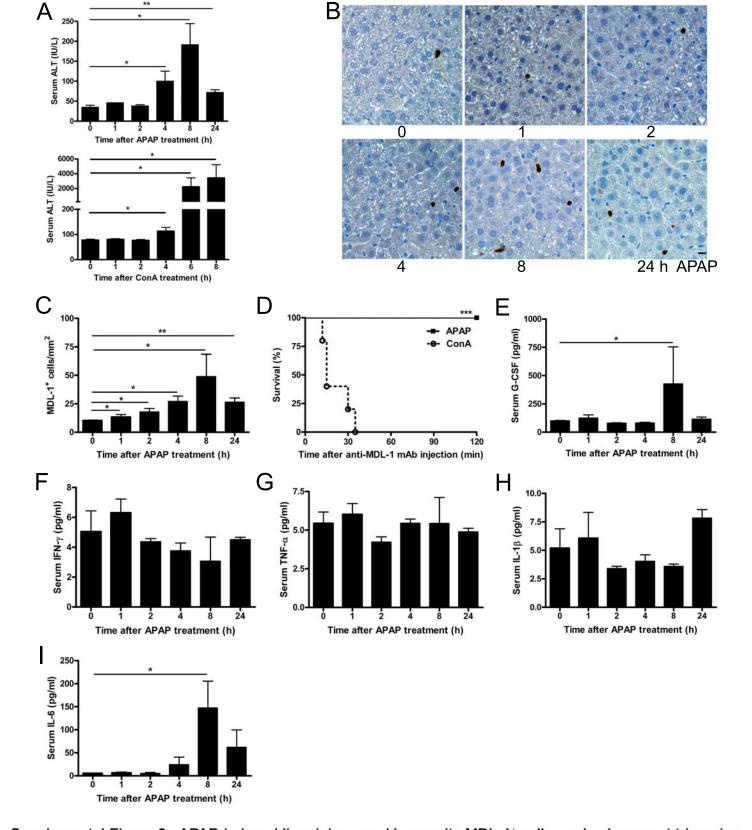


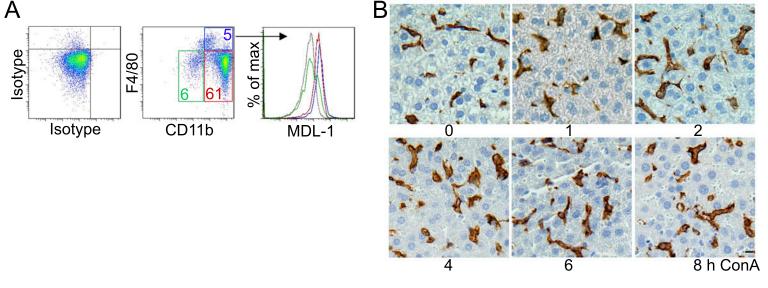
Supplemental Figure 1. ConA increased GM-CSF, KC, MIP-2 and MCP-1 production but they are not involved in MDL-1-triggered shock. (A) Liver homogenates and sera were obtained from mice treated with ConA for indicated times (n=5). GM-CSF, KC, MIP-2 and MCP-1 levels in liver homogenates and sera were quantitated by Luminex. *P<0.05, **P<0.01, ***P<0.001 compared to 0 h time point. (B-D) Mice were pretreated with anti-mouse neutralizing mAbs for (B) GM-CSF, (C) KC, (D) MIP-2 and corresponding isotype control (n=5) prior to administration of ConA followed by anti-MDL-1 mAb, and survival was monitored. (E) CCR2^{f-} and WT mice (n=5) were treated with ConA followed by anti-MDL-1 mAb, and survival was monitored.



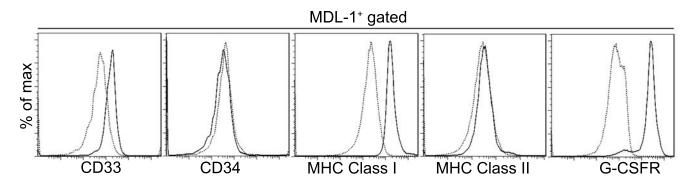
Supplemental Figure 2. G-CSF mobilizes hepatic infiltration of MDL-1⁺ cells, subsequent cytokine priming and MDL-1 activation cause lethal shock. (A) Mice were treated with G-CSF for indicated times (n=5) and liver sections were stained with anti-MDL-1 mAb. Scale bar: 10 μ m. (B) Quantitation of MDL-1⁺ cells in (A). **P<0.01, ***P<0.001 compared to 0 h time point. (C-F) Sera were obtained from mice treated with ConA for indicated times (n=5). (C) IFN- γ , (D) TNF- α , (E) IL-1 β , and (F) IL-6 levels in the sera were quantitated by Luminex. *P<0.05, **P<0.01, ***P<0.001 compared to naive sera. (G) Mice were treated with G-CSF, IFN- γ , TNF- α , IL-1 β , IL-6, followed by anti-MDL-1 mAb (n=5) and survival was monitored. ***P<0.001 compared to IgG₁. (H) *MDL-1*- α and WT mice were treated with G-CSF, IFN- α , TNF- α , IL-1 α , IL-1 α , IL-6, followed by DV (n=5) and survival was monitored. **P<0.01 compared to WT.



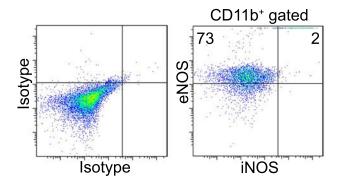
Supplemental Figure 3. APAP-induced liver injury weakly recruits MDL-1* cells, and subsequent triggering of MDL-1 does not cause lethal shock. (A) C57BL/6 mice were treated with APAP (top) or ConA (bottom) for indicated times (n=5), sera were collected and serum ALT levels measured. *P<0.05, **P<0.01 compared to 0 h time point. (B) Liver sections from (A) were stained with anti-MDL-1 mAb. Scale bar: 10 μ m. (C) Quantitation of MDL-1* cells in (B). (D) Mice were treated with APAP for 8 h or ConA for 4 h followed by anti-MDL-1 mAb (n=5) and survival was monitored. ***P<0.001 compared to ConA treatment. (E-I) Serum taken from (A) was analyzed for (E) G-CSF, (F) IFN- γ , (G) TNF- α , (H) IL-1 β , and (I) IL-6. *P<0.05 compared to 0 h time point.



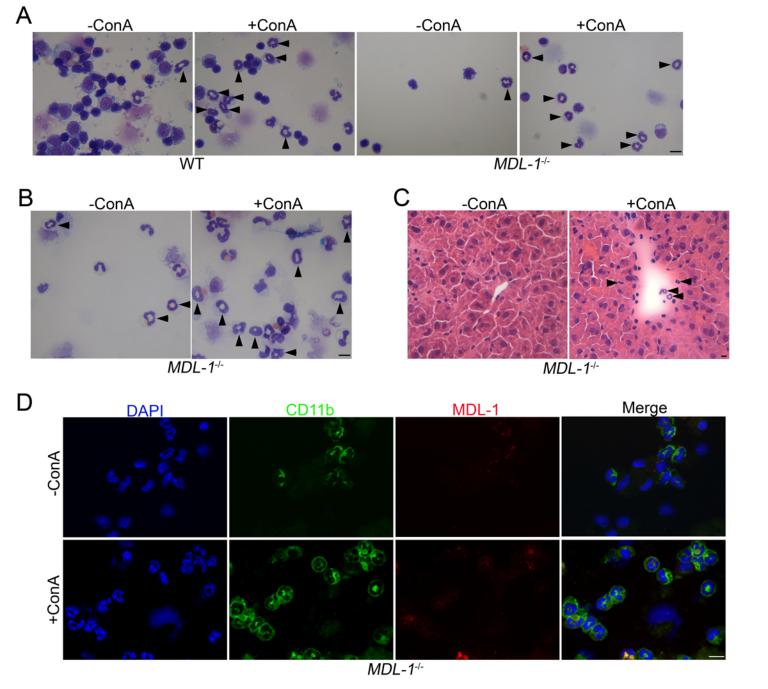
Supplemental Figure 4. MDL-1 is not expressed on macrophages. (A) Leukocytes isolated from livers of ConA-treated mice were purified using CD45 microbeads and analyzed by flow cytometry for expression of CD11b and F4/80 gated on CD45⁺ cells. Background signal was established in the same population by staining with the matched isotype controls. Numbers indicate the percentage of CD11b⁺/F4/80⁺ (blue box), CD11b⁺/F4/80⁻ (green box) cell population. Individual population was analyzed for MDL-1 expression (dotted line=isotype control). (B) Mice were treated with ConA for indicated times (n=5) and liver sections were stained with anti-F4/80 mAb. Scale bar: 10 μm.



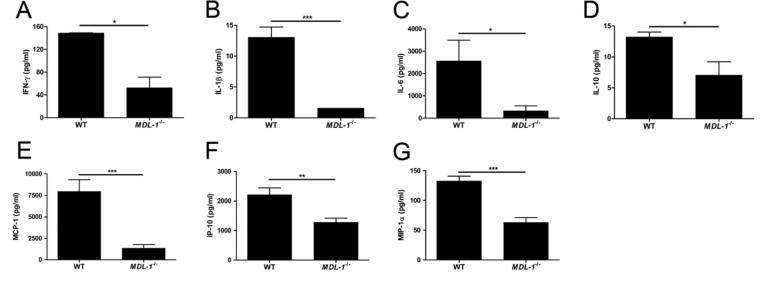
Supplemental Figure 5. Immunophenotyping of MDL-1⁺ cells as CD33⁺/CD34⁻/MHC Class I⁺/MHC Class II⁻/ G-CSFR⁺ immature myeloid cells. Leukocytes isolated from livers of ConA-treated mice were purified using CD45 microbeads and analyzed by flow cytometry for expression of CD33, CD34, MHC Class I, MHC Class II and G-CSFR gated on MDL-1⁺ cells (dotted line=isotype control).



Supplemental Figure 6. iNOS is not expressed in immature myeloid cells. Leukocytes isolated from livers of ConA-treated mice were analyzed by flow cytometry for expression of eNOS and iNOS gated on CD11b⁺ cells. Bakground signal was established in the same population by staining with the matched isotype controls (left panel).



Supplemental Figure 7. ConA-induced infiltration of myeloid cells to blood and liver is MDL-1-independent. (A) Morphologic analysis of Diff-Quik stained cytospin preparations of Gr-1⁺ cells isolated from blood of naive and ConA-treated WT and *MDL-1*-1^{-/-} mice. Note the increased number of cells with ring-shaped nuclei (as indicated by arrows) by ConA treatment in both WT and MDL-1^{-/-} mice. Scale bar: 10 μm. (B) Diff-Quik stained cytospin preparations of Gr-1⁺ cells isolated from livers of naive and ConA-treated *MDL-1*-1^{-/-} mice. Ring cells are indicated by arrows. Scale bar: 10 μm. (C) Representative micographs of H&E-stained liver sections from naive and ConA-treated *MDL-1*-1^{-/-} mice. Ring cells are indicated by arrows. Scale bar: 10 μm. (D) Representative micrographs of immunostaining cytospin preparations of Gr-1⁺ cells isolated from livers of naive (top panel) and ConA-treated (bottom panel) *MDL-1*-1^{-/-} mice. Cells were stained with antibodies against CD11b (green) and MDL-1 (red). Nuclei were counterstained with DAPI (blue). Scale bar: 10 μm.



Supplemental Figure 8. MDL-1-triggered shock is associated with elevated serum levels of IFN- γ , IL-1 β , IL-6, IL-10, MCP-1, IP-10 and MIP-1 α . Serum was collected from WT and MDL-1 $^{-1}$ mice treated with ConA followed by anti-MDL-1 mAb (n=5). (A) IFN- γ , (B) IL-1 β , (C) IL-6, (D) IL-10, (E) MCP-1, (F) IP-10, and (G) MIP-1 α levels were quantitated by Luminex. *P<0.05, **P<0.01, ***P<0.001 compared to MDL-1 $^{-1}$ -.