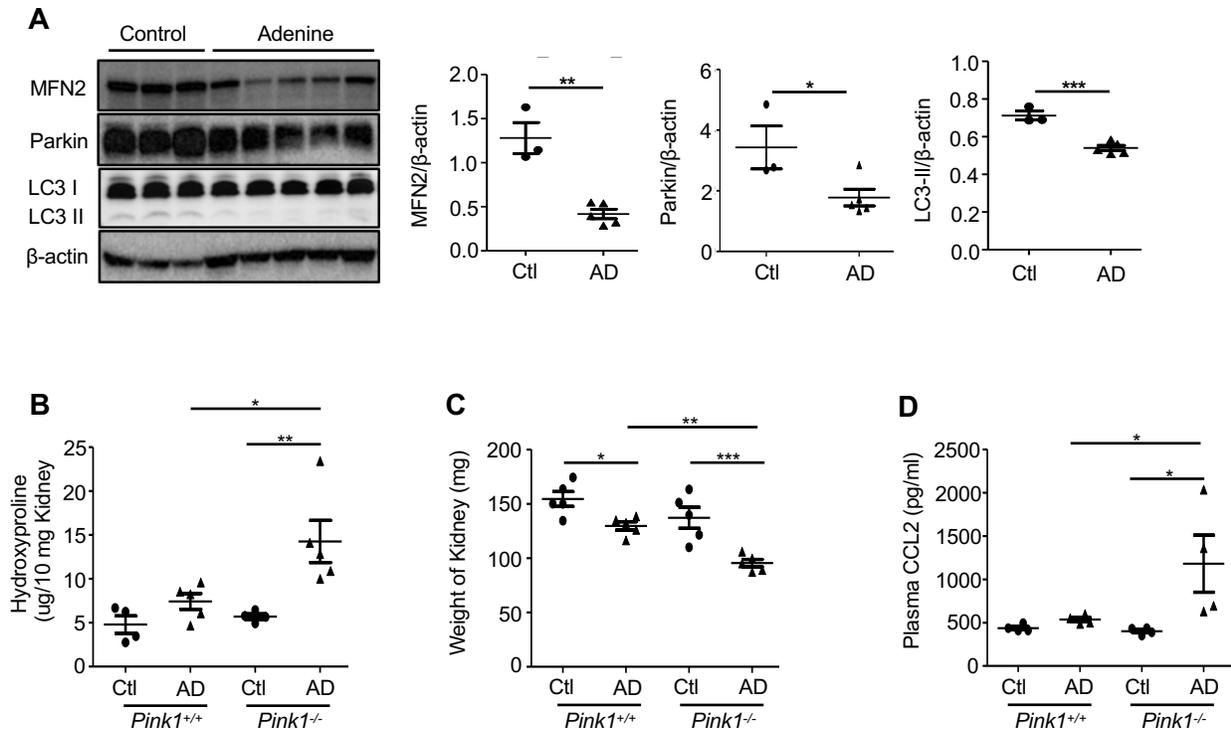
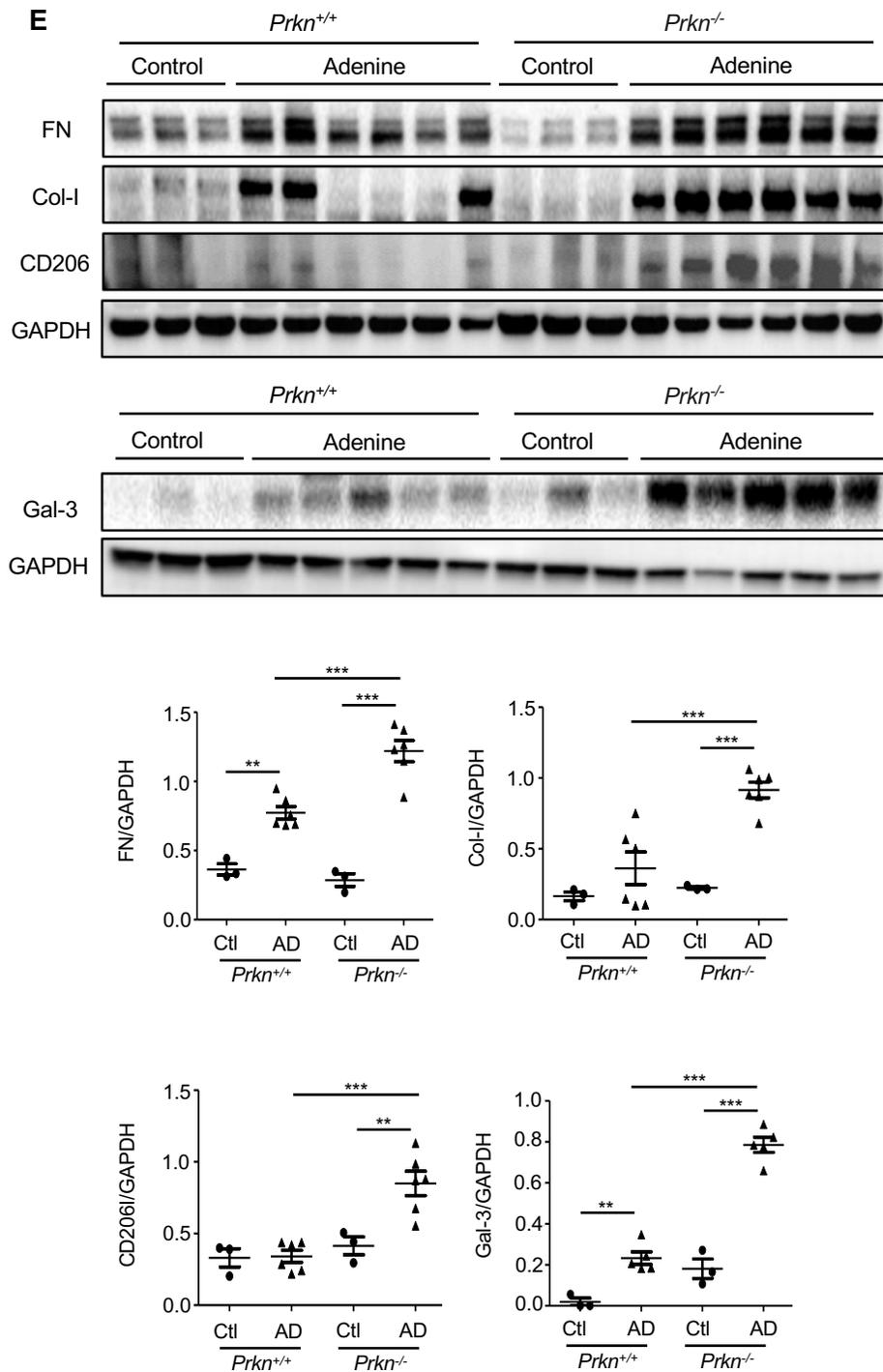


Supplemental Figure 1



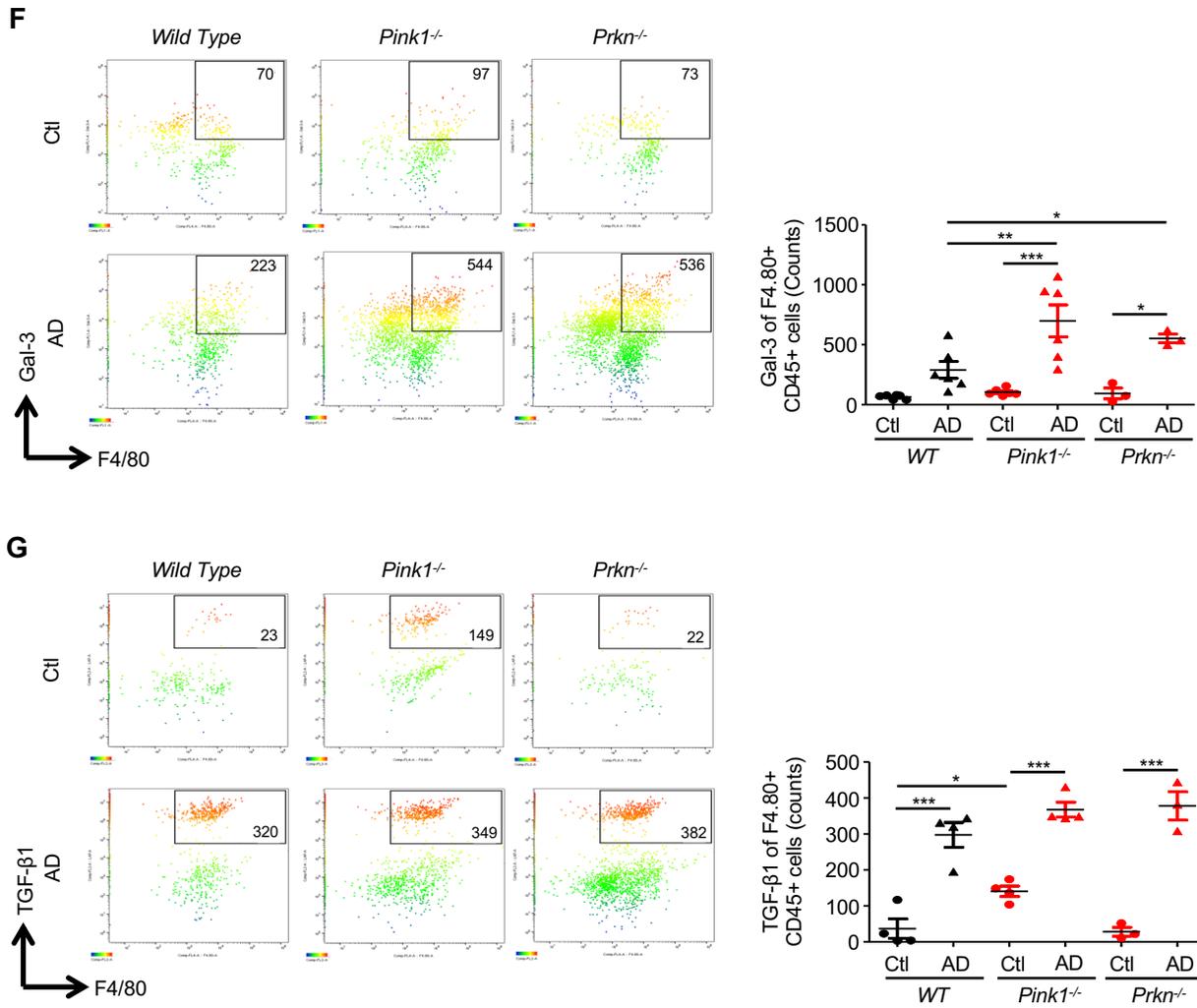
Supplemental Figure 1. PINK1 and Parkin deficiency enhances kidney damage and fibrosis in adenine (AD) model. A) Western blot and densitometry analysis for MFN2, Parkin, and LC3 normalized to β -actin in the kidney from mice fed with control (Ctl, $n = 3$ per group) or adenine (AD, $n = 5$ per group) diet for 14 days. Data are mean \pm SEM. * $P < 0.05$, ** $P < 0.01$ and *** $P < 0.001$, analyzed by student's unpaired 2-tailed t -test **B)** Hydroxyproline content in the kidney from $Pink1^{+/+}$ and $Pink1^{-/-}$ mice fed with Ctl ($n = 4$ per group) or AD ($n = 5$ per group) diet for 28 days. **C)** Weight of kidney from $Pink1^{+/+}$ and $Pink1^{-/-}$ mice ($n = 5$ per group) fed with Ctl or AD diet for 28 days. **D)** Circulating chemokine CCL2 levels in the plasma samples obtained from $Pink1^{+/+}$ and $Pink1^{-/-}$ mice ($n = 4$ per group) fed with Ctl or AD diet for 28 days were determined by ELISA.

Supplemental Figure 1E



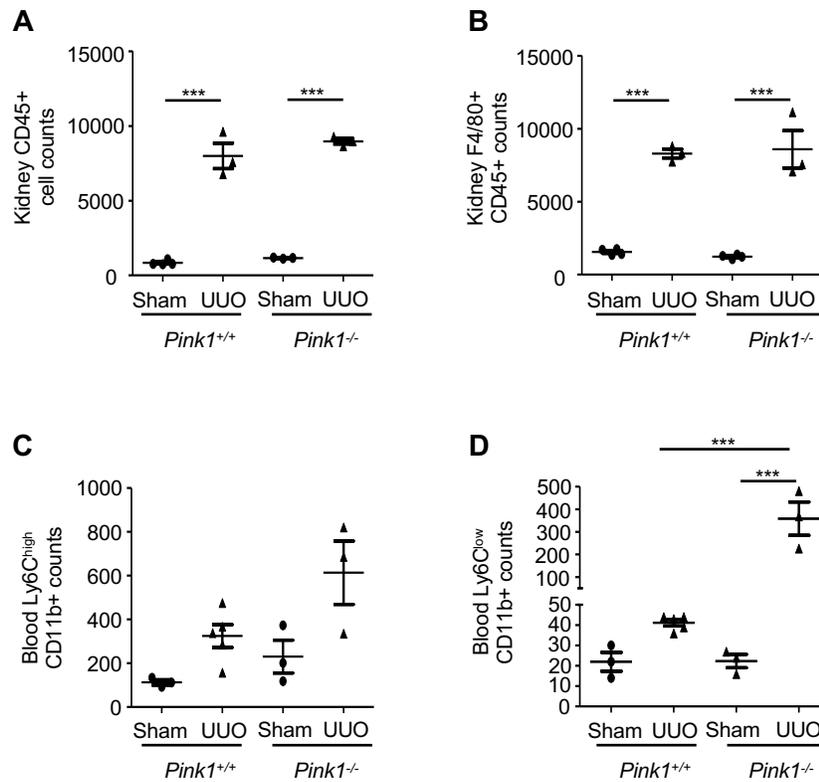
Supplemental Figure 1. E) Western blot and densitometry analysis for the expression of fibronectin (FN), Collagen-I (Col-I), CD206, and Galectin-3 (Gal-3) normalized to GAPDH on kidney from *Prkn*^{+/+} and *Prkn*^{-/-} mice fed with control (Ctl, $n = 3$ per group) or adenine (AD, $n \geq 5$ per group) diet for 14 days. Data are mean \pm SEM. * $P < 0.05$, ** $P < 0.01$ and *** $P < 0.001$, analyzed by one-way ANOVA (B, C, D, E).

Supplemental Figure 1F and 1G



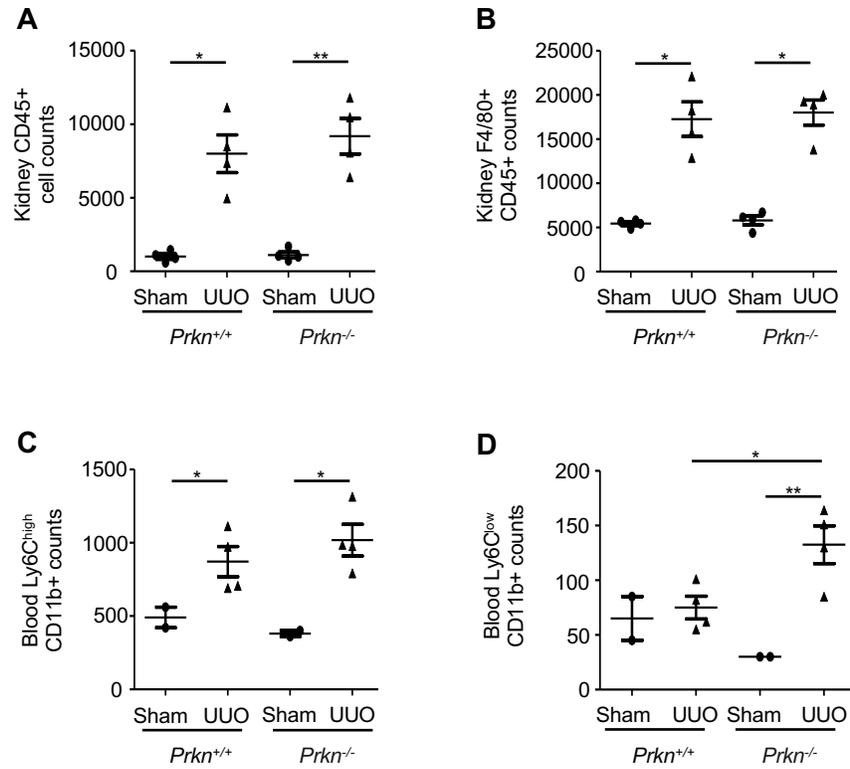
Supplemental Figure 1. F and G) PINK1 and Parkin deficiency enhances kidney damage and fibrosis in adenine (AD) model. F) Flow cytometric data showing the numbers galectin-3 (Gal-3)+ F4/80+ cells in the kidney from wild type ($n = 6$ per group) *Pink1*^{-/-} ($n = 6$ per group) and *Prkn*^{-/-} ($n = 3$ per group) mice 28 days after control (Ctl) or adenine (AD) diet. The Gal-3+ F4/80+ cells were gated on CD45+ SSC low cells (not shown). **G)** Flow cytometric data showing the numbers of TGF-β1+ F4/80+ cells in the kidney from wild type ($n = 4$ per group), *Pink1*^{-/-} ($n = 4$ per group) and *Prkn*^{-/-} ($n = 3$ per group) mice 28 days after Ctl or AD diet. The TGF-β1+ F4/80+ cells were gated on CD45+ SSC low cells (not shown). The data are representative of three independent experiments and are mean \pm SEM. * $P < 0.05$, ** $P < 0.01$ and *** $P < 0.001$, analyzed by one-way ANOVA (B-G).

Supplemental Figure 2



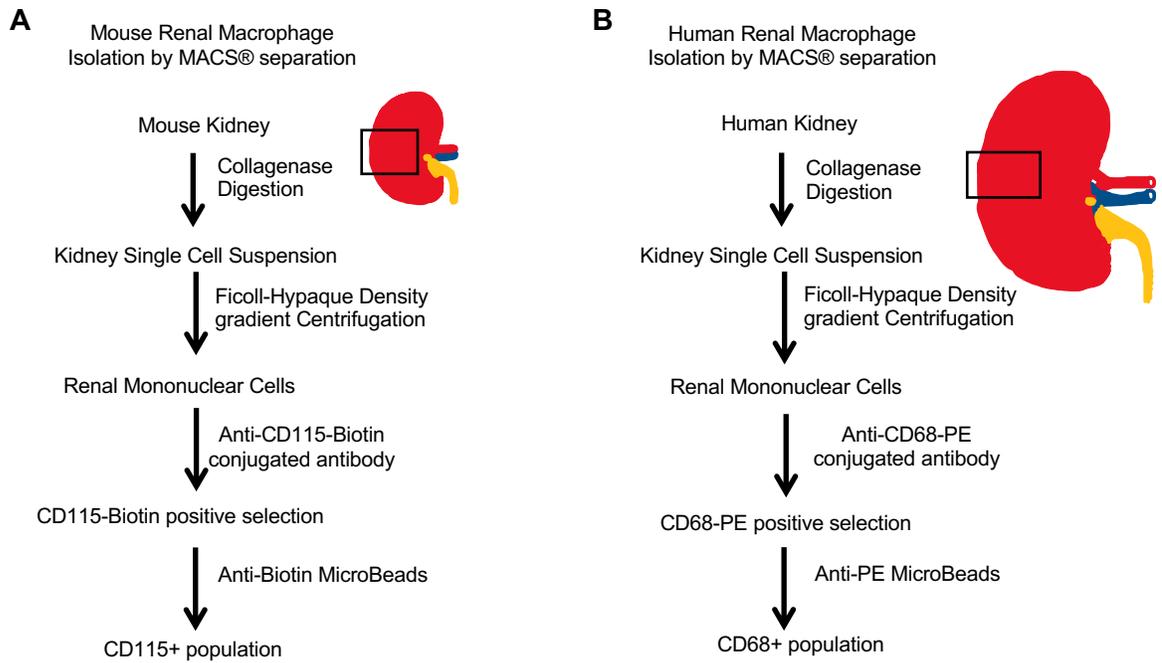
Supplemental Figure 2. Loss of PINK1 amplifies frequency of circulating Ly6C^{low} monocytes in experimental kidney fibrosis. **A and B)** Quantitative flow cytometric analysis showing the numbers of CD45+ mononuclear cells (A) and F4/80+ CD45+ phagocytic population (B) in the kidney from *Pink1*^{+/+} and *Pink1*^{-/-} mice 7 days after sham ($n = 4$ per group) or UUO ($n = 3$ per group) surgery. **C and D)** Flow cytometric analysis showing the numbers of circulating Ly6C^{high} CD11b+ (C) and Ly6C^{low} CD11b+ (D) cells gated from CD45+ cells (not shown) from the peripheral blood from *Pink1*^{+/+} and *Pink1*^{-/-} mice after 7 days of sham ($n = 3$ per group) or UUO ($n = 5$ and 3 per group) surgery. Data are shown as mean \pm SEM. *** $P < 0.001$, analyzed by one-way ANOVA.

Supplemental Figure 3



Supplemental Figure 3. Parkin deficiency promotes frequencies of circulating Ly6C^{low} monocytes in experimental kidney fibrosis. **A and B)** Quantitative flow cytometric data showing the numbers of CD45+ mononuclear cells (A) and F4/80+ CD45+ phagocytic population (B) in kidney from *Prkn*^{+/+} and *Prkn*^{-/-} mice ($n = 4$ per group) after 7 days of sham or UUO surgery. **C and D)** Flow cytometric analysis showing the numbers of circulating Ly6C^{high} CD11b+ (C) and Ly6C^{low} CD11b+ (D) cells gated from CD45+ cells (not shown) from the peripheral blood from *Prkn*^{+/+} and *Prkn*^{-/-} mice after 7 days of sham ($n = 2$ per group) or UUO ($n = 4$ per group) surgery. Data are mean \pm SEM. * $P < 0.05$, and ** $P < 0.01$ analyzed by one-way ANOVA.

Supplemental Figure 4



Supplemental Figure 4. Isolation of macrophages from kidney. **A)** Schema showing the isolation of macrophages from mouse kidney cells using Ficoll-Hypaque density gradient centrifugation followed by CD115 positive selection through magnetic-activated cell sorting (MACS). **B)** Isolation of macrophages from human kidney using density gradient centrifugation and subsequently MACS cell separation protocol using CD68 positive selection.