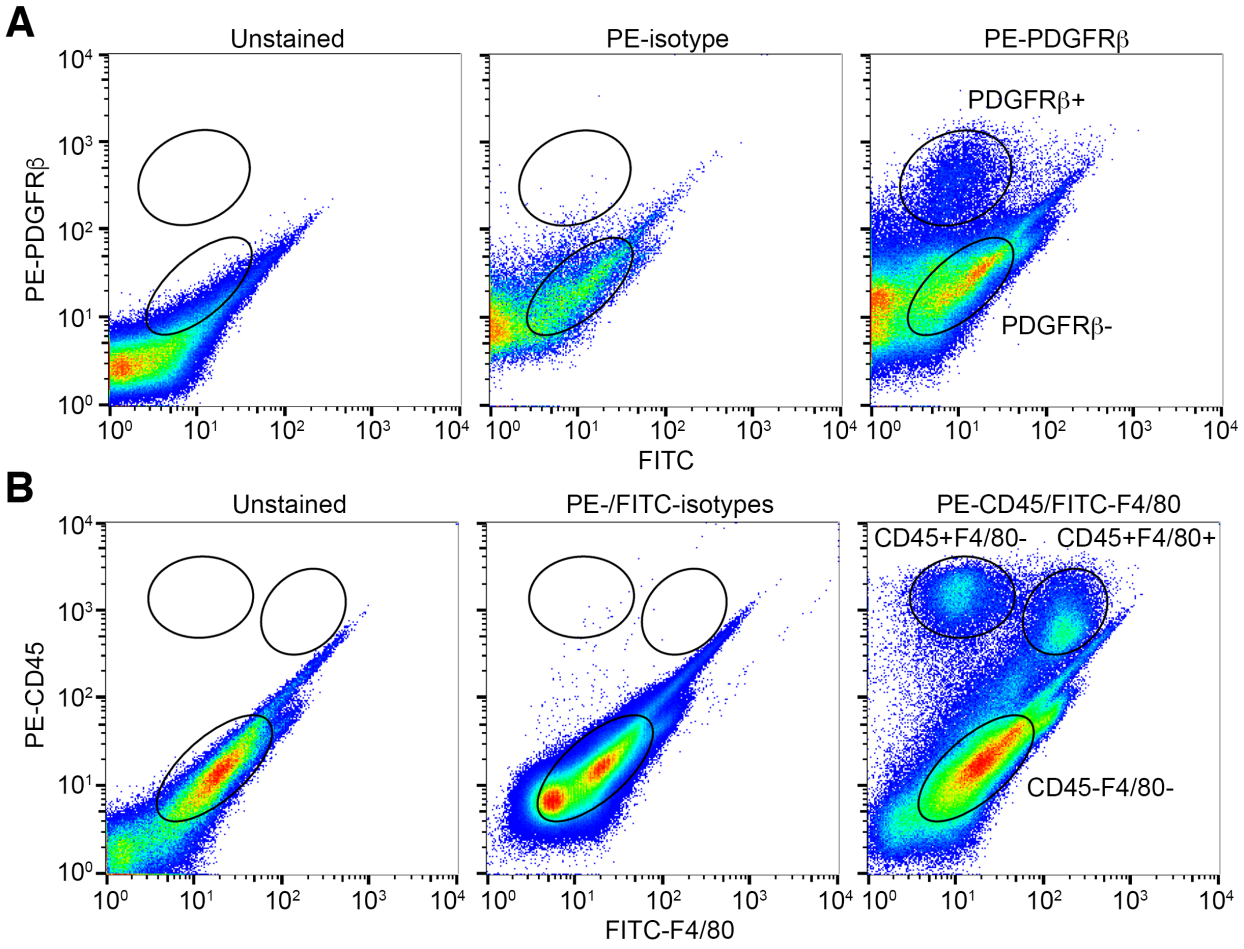
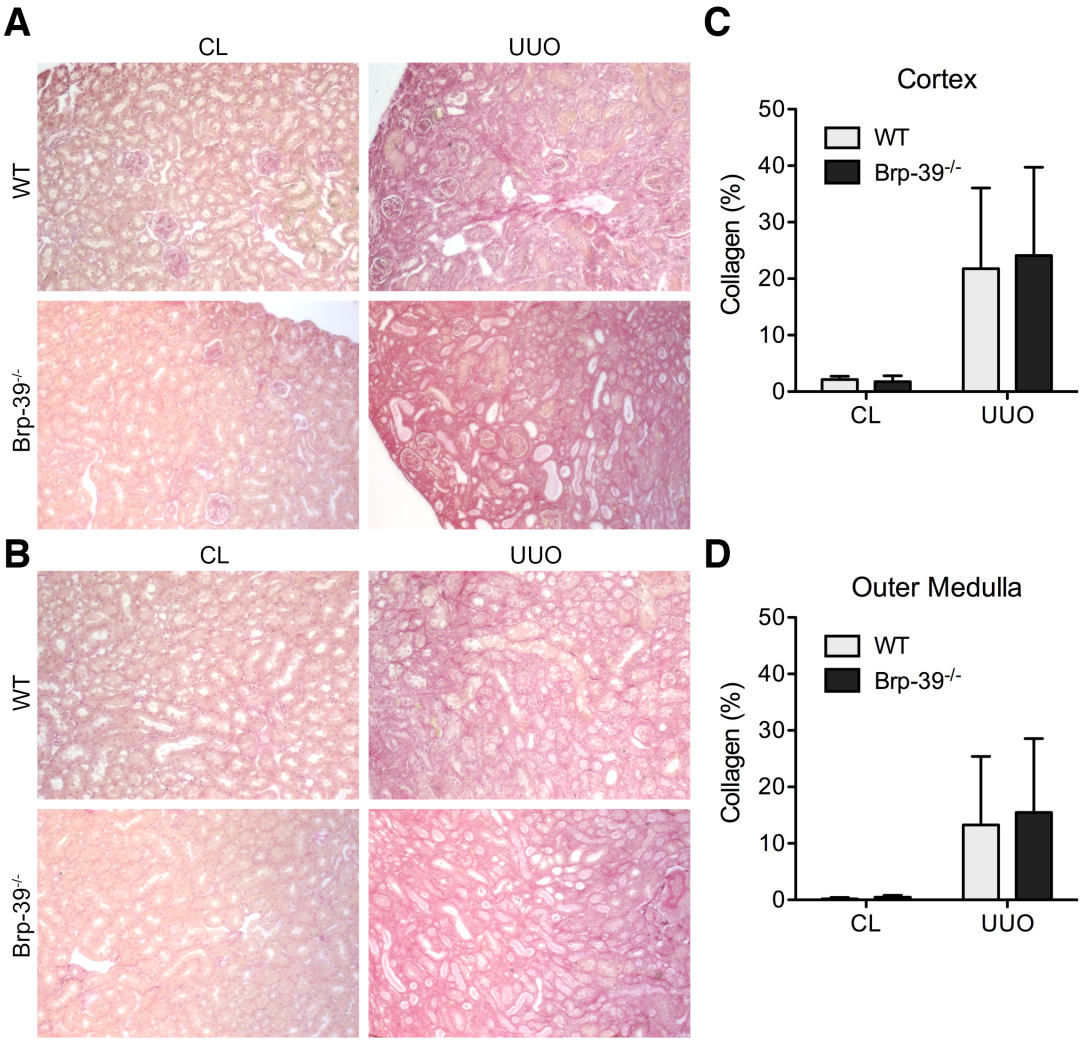
Supplemental Figures

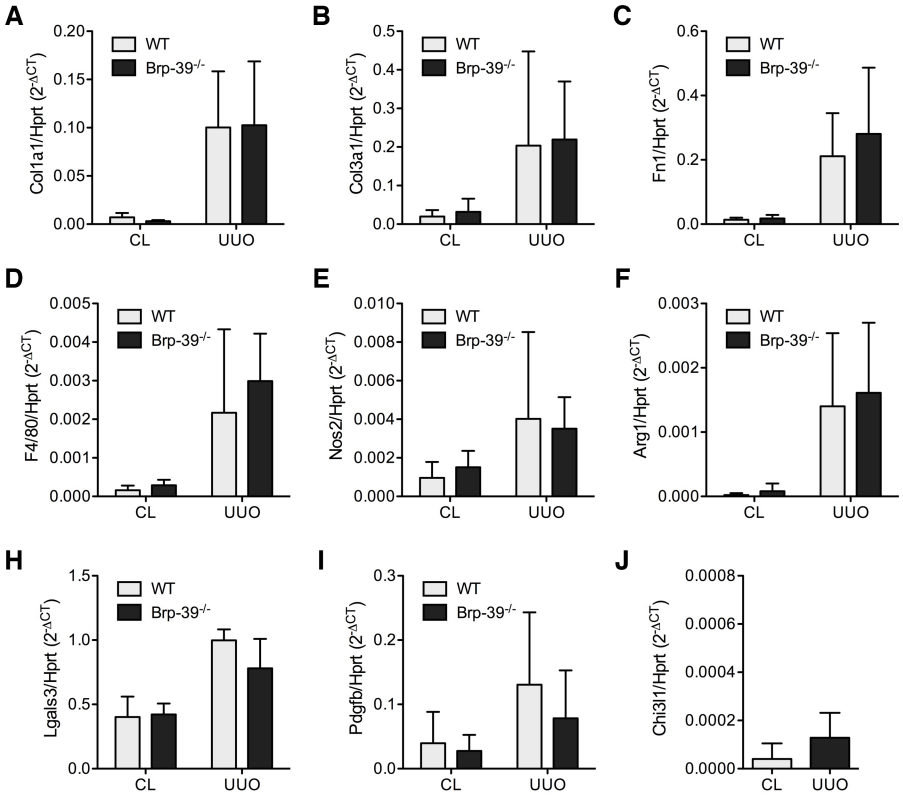
Manuscript: Brp-39/Chitinase 3-like 1 promotes renal fibrosis after kidney injury via activation of myofibroblasts



Supplemental Figure 1. FACS sorting of myofibroblasts and macrophages. A) PDGFRβ+ and PDGFRβ- cells and (B) CD45+F4/80+, CD45+F4/80- and CD45-F4/80- cells were isolated by FACS 14 days after surgery. Shown in the left column and middle column are the unstained and isotype controls. The regions circled are the gates used to isolate corresponding cells, respectively (right column).



Supplemental Figure 2. Brp-39 knockout fails to attenuate renal interstitial fibrosis in a unilateral ureteral obstruction (UUO) model. The UUO and the contralateral (CL) kidneys were harvested at 10 days-post surgery. The kidney sections were stained with Picrosirius red and imaged in the cortex (A) and outer medulla (B). Collagen staining in the cortex (C) and outer medulla (D) was quantified by ImageJ. *n*=7 kidneys/group.



Supplemental Figure 3. Analysis of profibrotic gene expression in Brp-39$^{-/-}$ and wild-type kidneys after UUO. RNA was harvested from wild-type and Brp-39 null kidneys on day 10 after UUO and quantitative RT-PCR performed for the indicated genes. n=7 kidneys/group. *p*=ns for all CL comparisons and UUO comparisons of wild-type vs. Brp-39 null kidneys.