Supplementary Figure 8

Controls (n=5)  IgA Nephropathy (n=15)  Rapid Progressive GN (n=9)

CXCR4  SDF1  PDGFA  VEGFA  TGFβ1  HIF1α  Integrin β1
Supplementary Figure 8:
mRNA expression analysis of VHL- HIF pathway molecular targets in glomeruli from patients with pauci-immune RPGN, IgA nephritis or no glomerular disease

Each cluster represents an individual patient and each bar represents a separate gene. Gene expression was determined in glomeruli isolated from patient biopsy samples by realtime PCR, normalized to GAPDH, and expressed as a ratio to the mean of controls (mean of controls = 1.00). Of note, targets such as CXCR4, HIF1a, VEGFA, PDGFA, TGFβ1 and integrin β1 found to be increased in glomeruli from Vhlh\textsuperscript{floxflox}/Pod-Cre mice are increased in 7 of 9 patients with RPGN while they are decreased in the majority of patients with IgA nephropathy. The lack of induction of expression in 2 of the 9 RPGN patients may be explained by the mild and focal nature of their disease (< 30% of glomeruli affected) and normal renal function (serum Creatinine 0.7 –1.2 mg/dL).