



**Supplementary Figure 1.** HDGF expression level was minimally changed in the retina and vitreous fluid of OIR mice. HDGF expression was detected by Western blot. Its signal was digitalized, normalized against  $\beta$ -actin. (A) Representative images of Western blot. (B) Quantification of HDGF in the retina. (C) Quantification of HDGF in the vitreous fluid. (D) Detection of OIR in flat-mount retina stained with Alexa Fluor 488-labeled isolectin B4. OIR was characterized by central avascular region, pathological neovascularization in the peripheral region (arrow), neovascular tufts and tortuous vessels (arrowhead). Mean  $\pm$  s.e.m., n=6 mice/group. No significance was found for control vs. OIR mice. One-way ANOVA test.