Supplementary Figure 1. CBS expression in the retina. (A) Quantitative analysis of the fluorescence intensity of CBS within the ONL of RA and OIR retinas at P17 (n=5). *P<0.0001 compared with RA control. (B) Representative images of CBS staining (green) in retinal frozen sections from P17 RA or OIR mice. Isolectin B4 was used to highlight vessels (red). Nuclei were stained with DAPI (blue). 200X magnification.
Supplementary Figure 2. H2S production in the plasma is decreased after AOAA treatment. Mice were injected with AOAA (i.p., 3 mg/kg/day) or vehicle (Con), and blood was collected and centrifuged to get the plasma. H2S production in the plasma was evaluated with a fluorescent assay (n=6). *P=0.0007 compared with control.
Supplementary Figure 3. CSE is deleted in the retina and H2S production is decreased in the plasma of CSE-/− mice. (A) Retinas were collected from CSE+/+ and CSE-/− mice and CSE expression was assessed by Western blot (n=3). (B) Blood was collected from CSE+/+ and CSE-/− mice and centrifuged to get the plasma. H2S production in the plasma was evaluated with a fluorescent assay (n=6). *P=0.0290 compared with CSE+/+ control.
Supplementary Figure 4. Half deletion of CSE does not affect neovascularization at P17. CSE\(^{+/+}\) and CSE\(^{+-}\) littermates were subjected to OIR. Retinas were harvested and stained with isolectin B4 at (A) P17 and (B). Representative images of retinal flat-mounts were shown and white lines outline the area of vaso-obliteration. Graph represents neovascularization and avascular area in CSE\(^{+/+}\) and CSE\(^{+-}\) mice (n=8; ns, not significant).