Supplemental Figure 1

(A) In-cell western analysis of HIF-2α expression in two primary WT and a2KO (ITGA2-/-) Müller cells after 24 hours of culture in hypoxia conditions. HIF-2α expression shown in Red and actin shown in Green.

(B) In-cell western analysis of HIF-2α expression in two primary WT and a2KO (ITGA2-/-) Müller cells after 24 hours of culture in hypoxia conditions. Expression of a2-integrin in Red and actin expression in Green.
Supplemental Figure 2

(A) Retinal flat mounts of age-matched wild type (WT) and ITGA2-/- mice at P9 and P12. Vessels were visualized by GS Lectin (green) via immunofluorescence microscopy. At P9 and P12 radial vascular outgrowth was complete, and so vascularization was measured by Vascular Density, as quantitated by pixel percentage of vessel area relative to total retina area. Each data point represents the average result from an experiment with a litter of at least 4 mice (data represent mean +/- SEM). The results are representative of 3 separate trials.
Supplemental Figure 3

(A) Retinal flat mounts of age matched P7 wild type (WT) and ITGA2/- mice. Vessels were visualized by GS Lectin (green) and astrocytes were visualized by Aldh1l1 (red) via Immunofluorescence microscopy. Images are representative and taken at 100x magnification. No visible differences in Tip cell-astrocyte interactions between WT and ITGA2/- retinas.