**Supplementary Figure S3: Pericyte density is higher in retinal capillaries compared to cerebral capillaries**

MetaMorph software was used for the quantification of pericyte coverage as determined by desmin (pericytes) and IB4 (vessels) staining in the cerebral cortex of WT (A-C) and Pdgfrβ-redeye/redeye P5 mice (D-F). This shows a statistically significant decrease in pericyte coverage in Homozygous animals (Hom) compared to WT (G). (SRH test P < 0.005, **Mann-Whitney U-test P < 0.005). To confirm that this lower coverage in wildtype cerebral cortex capillaries was not due to differences in staining from using desmin as a marker for pericytes rather than NG2, P5 retinas were also quantified using desmin. There is a statistically significant difference in pericyte coverage of retinal capillaries in P5 Homozygous animals (Hom) compared to WT (G) (SRH test P < 0.001, ***Mann-Whitney U-test P < 0.001).