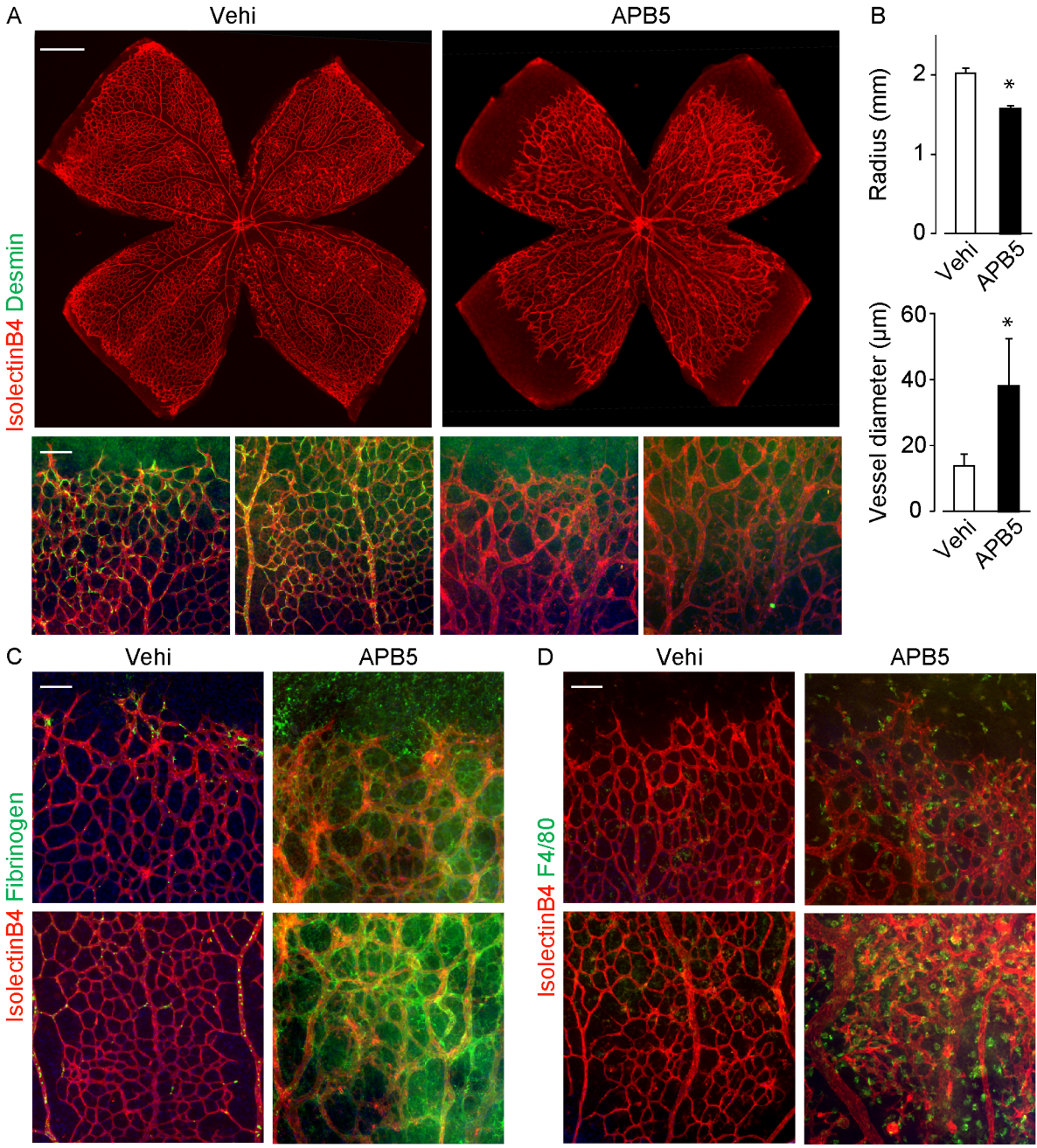
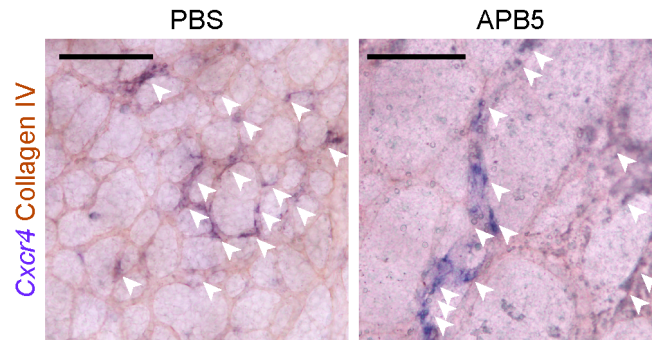


Supplemental figure 1



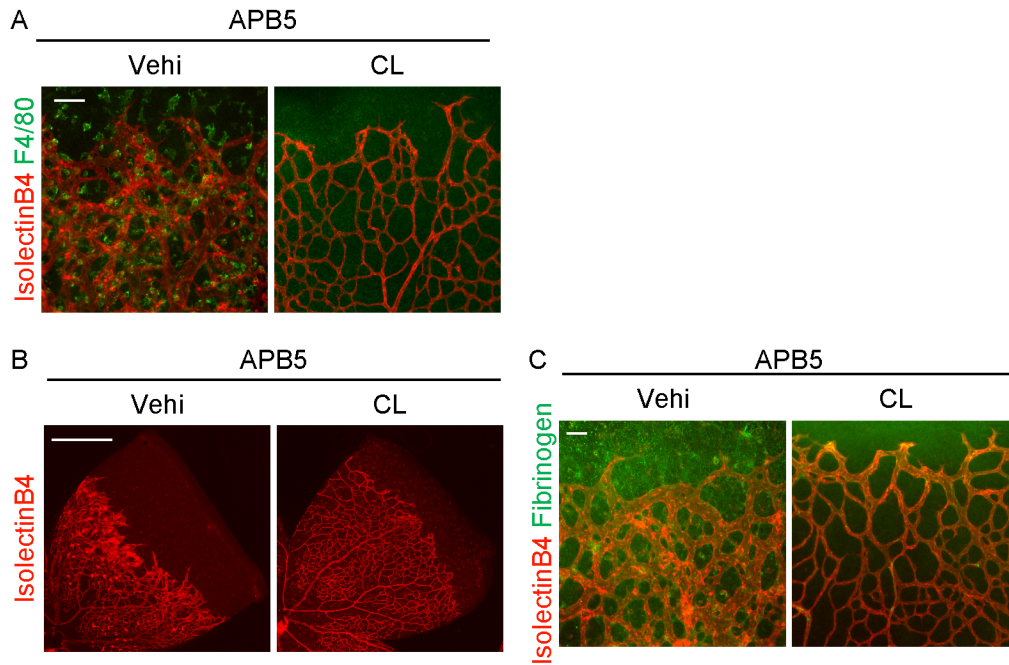
(A) Representative pictures of retina immunostaining of Isolectin B4 (red, upper panels) or Isolectin B4 (red, lower panels) and desmin (green lower panels) in P8. Scale bar, 500  $\mu\text{m}$  (upper panels) and 100  $\mu\text{m}$  (lower panels). (B) The effect of APB5 on retinal radius and vessel diameter in P8 ( $n = 6$ ). (C) Representative pictures of retina immunostaining of Isolectin B4 (red) and fibrinogen (green) in P8. Scale bar, 100  $\mu\text{m}$ . (D) Representative pictures of retina immunostaining of Isolectin B4 (red) and F4/80 (green) in P8. Scale bar, 100  $\mu\text{m}$ . \* Significantly different from the results in vehicle treated mice at  $p < 0.05$ . Data are presented as means  $\pm$  SEM.

## Supplemental figure 2



Representative pictures of retina *in situ* hybridization of *Cxcr4* (purple) and collagen IV (brown) in P8. White arrow heads indicate double positive staining region of *Cxcr4* and collagen IV.; Scale bar, 50  $\mu$ m.

### Supplemental figure 3



(A) Representative pictures of retina immunostaining of Isolectin B4 (red) and F4/80 (green) in P8. Scale bar, 100  $\mu$ m. (B) Representative pictures of retina immunostaining of Isolectin B4 (red) in P8. Scale bar, 100  $\mu$ m. (C) Representative pictures of retina immunostaining of Isolectin B4 (red) and fibrinogen (green) in P8. Scale bar, 100  $\mu$ m.

**Table S1. Primer sequences for PCR.**

Target	Forward primer	Reverse primer
SDF-1 $\alpha$ (CXCL12)	ATGCCAGAGCCAACGTCAAG	GGCACAGTTTGGAGTGTTGAG
CCL2	TGCCCTAAGGTCTTCAGCAC	AAGGCATCACAGTCCGAGTC
CCL7	TCCTCACCGCTGTTCTTTCT	TTAGGCGTGACCATTTTACA
CCL12	GTCCTCAGGTATTGGCTGGA	CGGACGTGAATCTTCTGCTT
CCL20	AAGACAGATGGCCGATGAAG	CACCCAGTTCTGCTTTGGAT
ICAM-1	TTCCAGCTACCATCCCAAAG	CTTCAGAGGCAGGAAACAGG
VCAM-1	ACAGACAGTCCCCTCAATGG	GTCACAGCGCACAGGTAAGA
E-selectin	CGTTTGACTGTGTGGAAGGG	ACAGGTCACAGCTTTGCATG
Tbp	CCCCCTCTGCACTGAAATCA	GTAGCAGCACAGAGCAAGCAA
18s rRNA	CGTTCTTAGTTGGTTGGAGCG	AACGCCACTTGTCCTCTAA