

Supplemental Figures

Korn et al. Figure S1

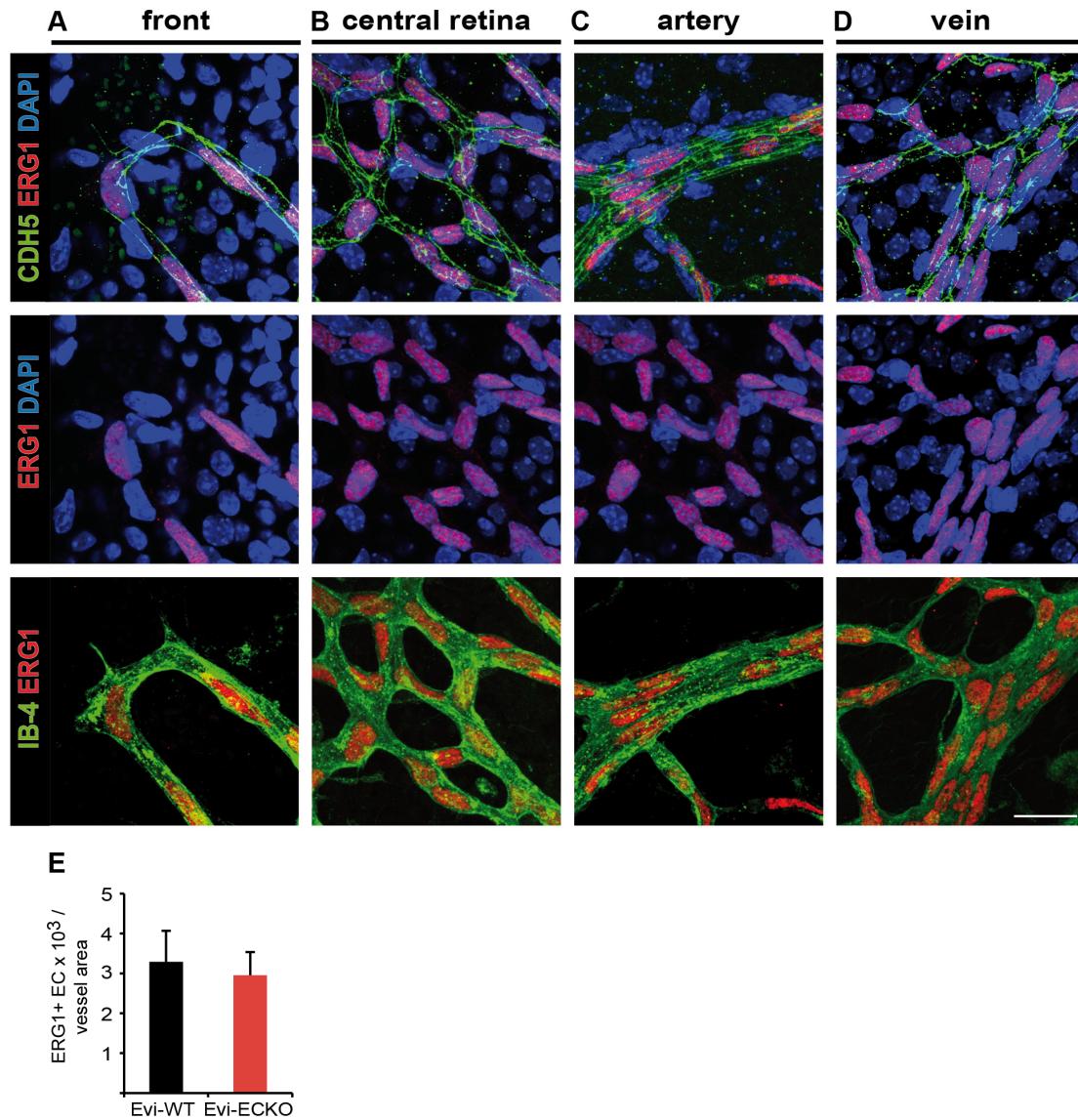


Fig. S1 ERG1 staining in the mouse retina for EC labeling. Representative images in different regions of the retina including vascular front (A), central retina (B), artery (C) and vein (D) co-stained for CDH5, ERG1 and DAPI (upper row), for ERG1 and DAPI (middle row) or for IB-4 and ERG-1 (lower row). Quantifications of ERG1⁺ EC per IB-4 stained vessel area (E, n=17) reveals a linear correlation between vessel area and ERG1⁺ EC number further supporting a uniform ERG1 expression throughout the retinal vasculature. Scale bar 20 μ m. Data is shown as mean \pm s.d.

Korn et al. Figure S2

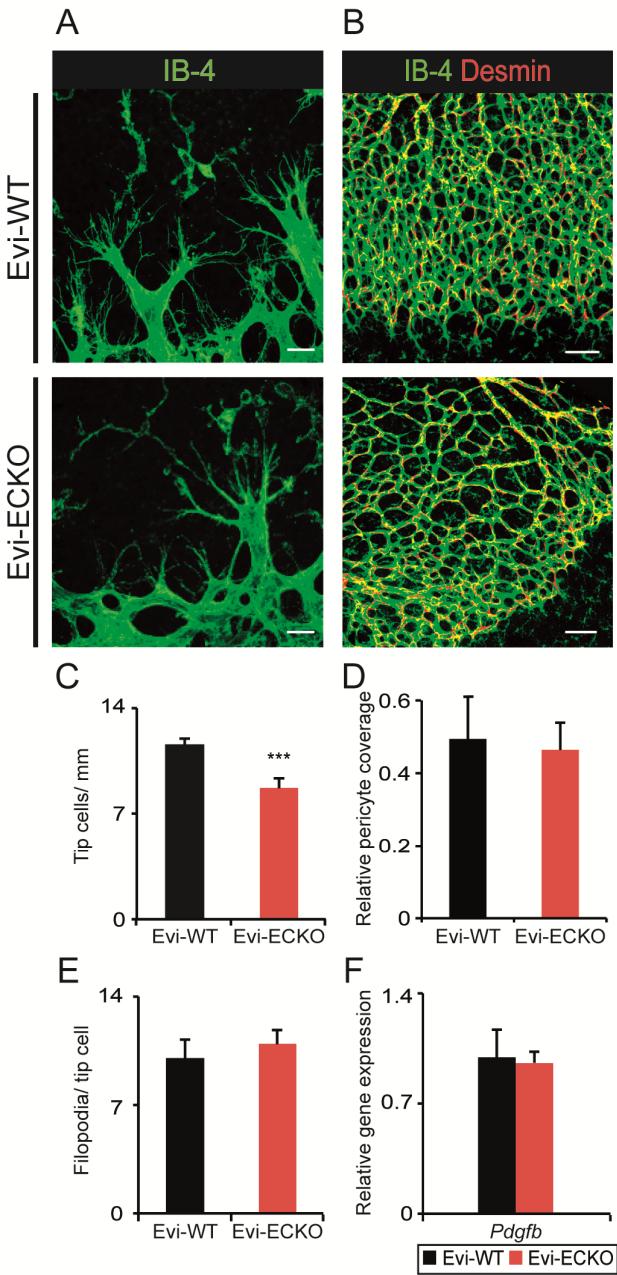


Fig. S2 Vessel sprouting and maturation are not affected in Evi-ECKO mice. Representative images of tip cells stained with IB-4 in (A). Representative images of the vasculature co-stained with IB-4 and desmin in Evi-WT and Evi-ECKO mice (B). Quantifications of tip cells/mm vessel front (C; n=16), pericytes coverage (D; n=10), filopodia per tip cell (E; n=6) and *Pdgfb* gene expression analysis of FACS sorted lung EC (F). Scale bar, 20 μ m (A) and 100 μ m (B). Data are shown as mean \pm s.d. (D-F) or mean \pm s.e.m. (C). ***P<0.001

Korn et al. Figure S3

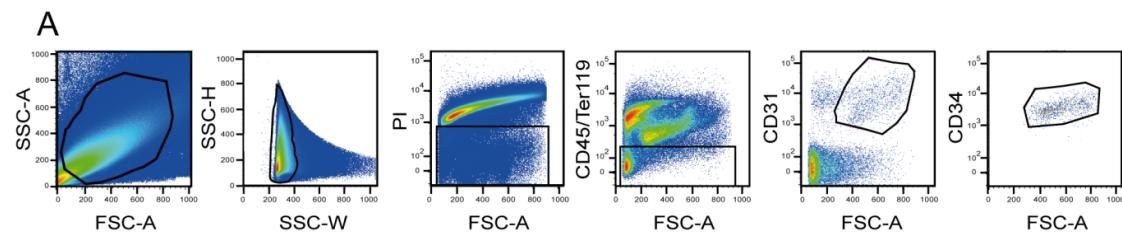


Fig. S3 FACS sorting scheme for the isolation of EC from mouse retina. Representative FACS sorting scheme for the isolation of retinal EC. CD45⁻Ter119⁻PI⁻CD31⁺CD34⁺ cells were sorted for EC gene expression analysis.

Korn et al. Figure S4

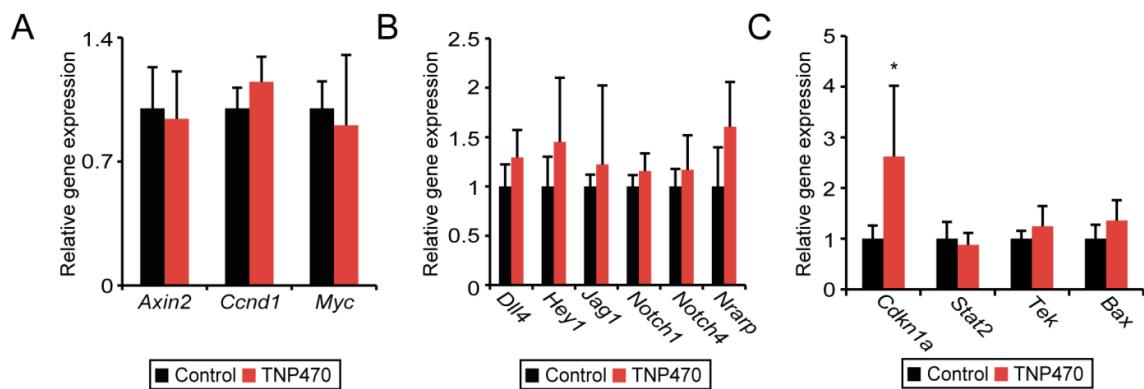


Fig. S4 Target gene expression upon TNP470 treatment. Gene expression analyses of canonical target genes (A), Notch genes (B) as well as survival and proliferation related genes (C) in lung EC of control (black) and TNP470-treated (red) mice. Data are shown as mean \pm s.d. *P<0.05

Korn et al. Figure S5

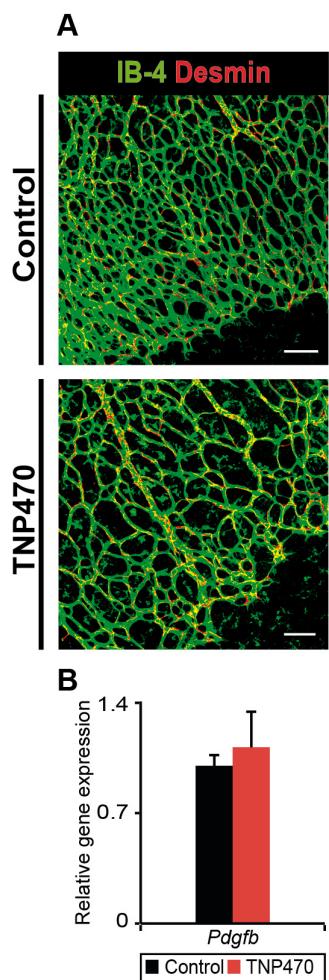


Fig. S5 Pericyte coverage is similar upon TNP470 treatment. Representative images of the vasculature co-stained with IB-4 and desmin in control- and TNP470-treated animals (A). *Pdgfb* gene expression analysis in control- and TNP470-treated (B) animals. Scale bar 100 μ m. Data are shown as mean \pm s.d.

Table S1: Primers

primer	sequence 5'-3'	method
CdhCreERT2 fwd	gcctgcattaccgggtcgatcaacga	genotyping PCR
CdhCreERT2 rev	gtggcagatggcgccgaaacaccatt	genotyping PCR
Evi fwd	aaggaaacgagattgagatgagg	genotyping PCR
Evi rev	gtttattttcccttaccactctg	genotyping PCR
human <i>Axin2</i> fwd	tgacggatgattccatgtcc	(RT)-qPCR
human <i>Axin2</i> rev	gttccacgggggtcatctc	(RT)-qPCR
human <i>Bax</i> fwd	catggagctgcagaggatgat	(RT)-qPCR
human <i>Bax</i> rev	gtcagctgccactcgaaaa	(RT)-qPCR
human <i>Gapdh</i> fwd	agcctccgcttcgctct	(RT)-qPCR
human <i>Gapdh</i> rev	ccaggcgccaatacgcacca	(RT)-qPCR

Table S2: Antibodies

antibody	reactivity	species	dilution	Conjugate	company	catalog number
BrdU		mouse	1:100	-	Roche	11170376001
Cadherin-5	Mouse	rat	1:300		BD Pharmingen	550548
CD31	mouse	rat	1:100	APC	BD Pharmingen	551262
CD31	mouse	rat	1:100	-	BD	553370
CD34	mouse	rat	1:50	Pacific Blue	BD Pharmingen	560230
CD45	mouse	rat	1:400	FITC	BD Pharmingen	553080
Cleaved caspase 3	mouse	rabbit	1:300	-	Cell signaling	9661
Collagen IV	mouse	rabbit	1:100	-	Serotec	2150-1470
Desmin	mouse	rabbit	1:100	-	Abcam	Ab15200-1
ERG1	mouse	rabbit	1:100	-	Abcam	ab92513
Lyve-1	mouse	rat	1:250	FITC	eBioscience	53-0443
Podoplanin	mouse	hamster	1:100	Alexa488	eBioscience	53-5381
Ter119	mouse	rat	1:200	FITC	BD Pharmingen	561032
IgG	rabbit	goat	1:500	Alexa546	Invitrogen	A11071
IgG	rat	goat	1:500	Alexa488	Invitrogen	A11081
IgG	mouse	goat	1:500	Alexa546	Invitrogen	A11003

Table S3: TaqMan probes

mouse probes	ordering number	human probes	ordering number
mouse <i>Actin</i>	Mm00607939_S1	human <i>AXIN2</i>	Hs00610344_m1
mouse <i>Agt</i>	Mm00599662_m1	human <i>B2M</i>	Hs00984230_m1
mouse <i>Axin2</i>	Mm00443610_m1	human <i>CDKN1A</i>	Hs00355782_m1
mouse <i>b2m</i>	Mm00437762_m1	human <i>EVI</i>	Hs01553062_m1
mouse <i>Bax</i>	Mm00432051_m1	human <i>GAPDH</i>	Hs02758991_g1
mouse <i>Ccnd1</i>	Mm00432359_m1	human <i>STAT2</i>	Hs01013123_m1
mouse <i>Cdkn1a</i>	Mm04205640_g1	human <i>TEK</i>	Hs00945146_m1
mouse <i>Dll4</i>	Mm00444619_m1	human <i>WNT1</i>	Hs01011247_m1
mouse <i>Ednra</i>	Mm01243722_m1	human <i>WNT10a</i>	Hs00228741_m1
mouse <i>Evi</i>	Mm00509695_m1	human <i>WNT10a</i>	Hs00228741_m1
mouse <i>Hey1</i>	Mm00468865_m1	human <i>WNT10b</i>	Hs00559664_m1
mouse <i>Hey2</i>	Mm00469280_m1	human <i>WNT11</i>	Hs00182986_m1
mouse <i>Jag1</i>	Mm00496902_m1	human <i>WNT16</i>	Hs00365138_m1
mouse <i>Myc</i>	Mm00487804_m1	human <i>WNT2</i>	Hs00608224_m1
mouse <i>Notch1</i>	Mm00435249_m1	human <i>WNT2b</i>	Hs00921614_m1
mouse <i>Notch4</i>	Mm00440525_m1	human <i>WNT3</i>	Hs00902257_m1
mouse <i>Nrarp</i>	Mm00482529_s1	human <i>WNT3a</i>	Hs00263977_m1
mouse <i>Pdgfb</i>	Mm00440677_m1	human <i>WNT4</i>	Hs01573504_m1
mouse <i>Stat2</i>	Mm00490880_m1	human <i>WNT5a</i>	Hs00998537_m1
mouse <i>Tek</i>	Mm00443254_m1	human <i>WNT5b</i>	Hs01086864_m1
mouse <i>Vegfa</i>	Mm01281449_m1	human <i>WNT6</i>	Hs00362452_m1
mouse <i>Wnt1</i>	Mm01300555_g1	human <i>WNT7a</i>	Hs01114990_m1
mouse <i>Wnt10a</i>	Mm00437325_m1	human <i>WNT7b</i>	Hs00536497_m1
mouse <i>Wnt10b</i>	Mm00442104_m1	human <i>WNT8a</i>	Hs00230534_m1
mouse <i>Wnt11</i>	Mm00437328_m1	human <i>WNT8b</i>	Hs00610126_m1
mouse <i>Wnt16</i>	Mm00446420_m1	human <i>WNT9a</i>	Hs00243321_m1
mouse <i>Wnt2</i>	Mm00470018_m1	human <i>WNT9b</i>	Hs00287409_m1
mouse <i>Wnt2b</i>	Mm00437330_m1		
mouse <i>Wnt3</i>	Mm00437336_m1		
mouse <i>Wnt3a</i>	Mm00437337_m1		
mouse <i>Wnt4</i>	Mm01194003_m1		
mouse <i>Wnt5a</i>	Mm00437347_m1		
mouse <i>Wnt5b</i>	Mm01183986_m1		
mouse <i>Wnt6</i>	Mm00437353_m1		
mouse <i>Wnt7a</i>	Mm00437354_m1		
mouse <i>Wnt7h</i>	Mm01301717_m1		
mouse <i>Wnt8a</i>	Mm01157914_g1		
mouse <i>Wnt8b</i>	Mm00442107_m1		
mouse <i>Wnt9a</i>	Mm00460518_m1		
mouse <i>Wnt9b</i>	Mm00457102_m1		