

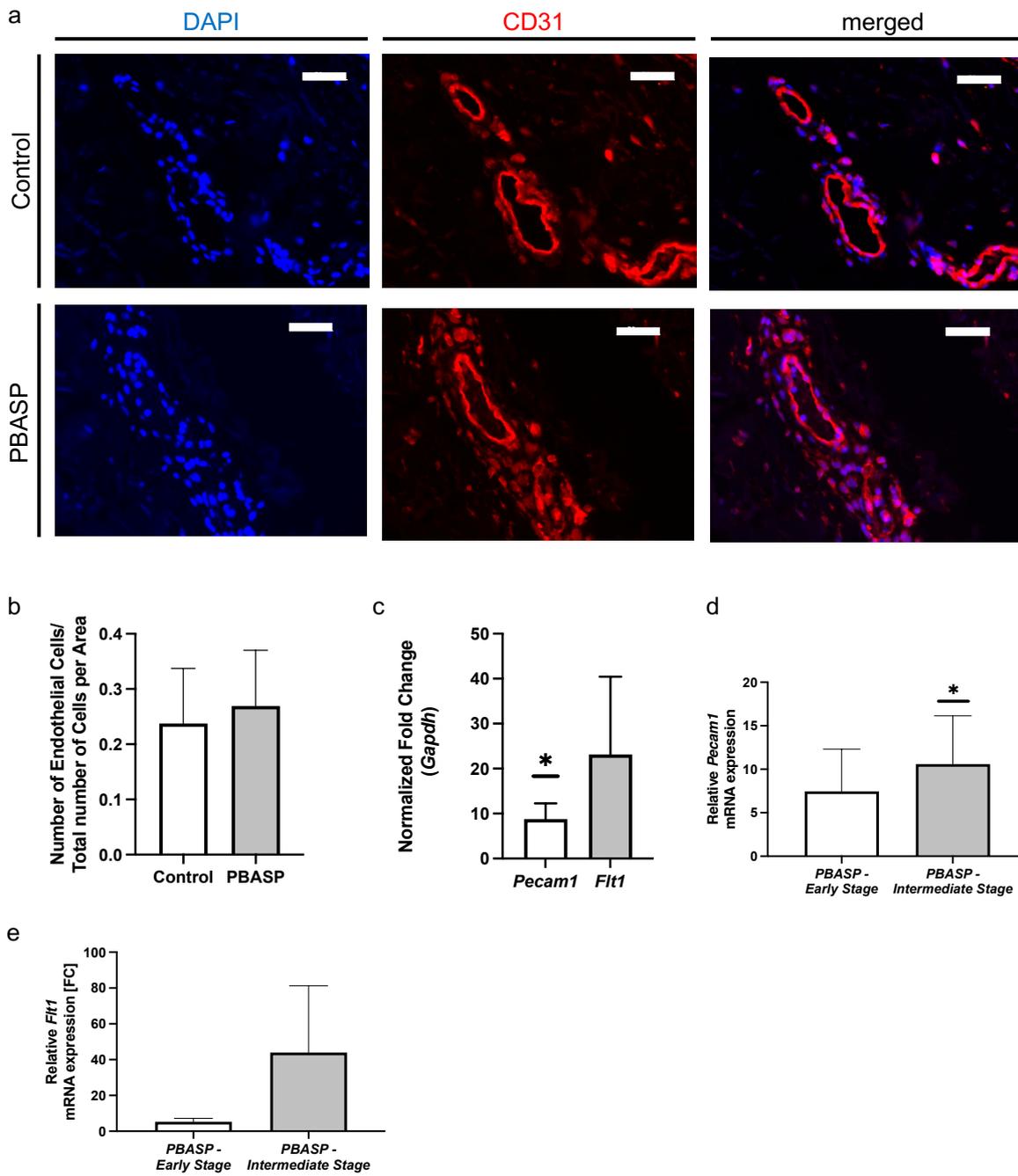
Supplementary Table 1

Used Primer Sequences

Gene	Primer sequence forward	Primer sequence reverse
<i>Acta2</i>	5'- CTgTTCCAgCCATCCTTCAT	5'- TCTTCCTgCCTgCCTTCTAA
<i>Adipoq</i>	5'- gggATTTACCCATgTTgTCC	5'- CTTCCCCTTCgCTCTTTCTT
<i>Ccn2</i>	5'- CCTggTCCAgACCACAgAgT	5'- TggAgATTTTgggAgTACgg
<i>Col1a1</i>	5'- gAgAgCATgACCgATggATT	5'- CCTTCTTgAggTTgCCAgTC
<i>Flt1</i>	5'-AgTTTAAAaggCACCCAgCA	5'-TCAgCCTTTCgCTTTCCTTA
<i>Flt4</i>	5'- AAgCTggTgATCCAgAATgC	5'- ACTTgTAgCTgTCggCTTgg
<i>GAPDH</i>	5'- CTCACTgTTCTCTCCCTCCg	5'- CTAACggCTgCCCATTCACT
<i>Ifn-γ</i>	5'- TgACCAgAgCATCCAAAga	5'- TTTCgCTTCCCTgTTTTAgC
<i>IL-1α</i>	5'- gCgTTTgAgTCAgCAAgaAgT	5'- CATggAgTgggCCATAgCTT
<i>IL10</i>	5'- CCAgACATCAAggCgCATgT	5'- CATTCTTACCTgCTCCACgg
<i>Il6</i>	5'- TACCCCCAggAgAAgATTCC	5'- TTTTCTgCCAgTgCCTCTTT
<i>Kdr</i>	5'-AAgTCgggAgAggAgAgAgg	5'-ggTgTTTTgCTgTgggAAAT
<i>Lyve1</i>	5'- CTACTCTCCTgCTCCAgCTT	5'- ACCCAgCAgCTTCATTCTTg
<i>Mmp9</i>	5'- gACAAgCTCTTCggCTTCTg	5'- TgTCgCTgTCAAAGTTCgAg
<i>Pecam1</i>	5'-AgTCggACAgTgggACgTAT	5'-ACggACTTCgATggTCTgTC
<i>Prx1</i>	5'- TgTCATCTCACCACTgAgC	5'- gATTgggTgACAATCCTTCC
<i>Tgf-β</i>	5'- CCATCTAgCAAgTggCTTC	5'- gCggAAgTCAgAgAgTgAgg
<i>Tnf- α</i>	5'- gAggTgCTgACCgACAAAg	5'- ggAgggTgATggTgTCATCT
<i>Vegf-C</i>	5'-AAAgaAACCTgCCCCAgAAAT	5'-gAAAATCCTggCTCACAAGC

List of forward and reverse primer sequences used for quantitative polymerase chain reaction (PCR) analysis of target genes: GAPDH, glyceraldehyde-3-phosphate dehydrogenase; IL, interleukin; TGF- β , transforming growth factor beta; TNF- α , tumor necrosis factor alpha; VEGF-C, vascular endothelial growth factor C; MMP-9, matrix metalloproteinase 9.

Supplementary Fig. 1



Supplementary Figure 1

Endothelial cell analysis in control and PBASP samples.

(a-b) Representative immunofluorescence images (A) and quantification (B) of endothelial cell number relative to total cells in control and perforator-based adipocutaneous skin paddle (PBASP) samples. Scale bars: 50 μ m.

(c) Relative mRNA expression of *Pecam1* and *Flt1* in control and PBASP samples, measured by qPCR. Gene expression was normalized to *Gapdh* mRNA levels, with data shown relative to control.

(d) Relative mRNA expression of *Pecam1* in early- and intermediate-stage PBASP subgroups compared to control, measured by qPCR. Gene expression was normalized to *Gapdh* mRNA levels.

(E) Relative mRNA expression of *Flt1* in early- and intermediate-stage PBASP subgroups compared to control, measured by qPCR. Gene expression was normalized to *Gapdh* mRNA levels.

*Data are presented as mean \pm SEM. *P < 0.05. n = 15 independent patient-derived paired samples (Day 0 control vs. PBASP). Subgroups included n = 9 early-stage PBASP samples (Days 7–10) and n = 6 intermediate-stage PBASP samples (Days 11–14).*