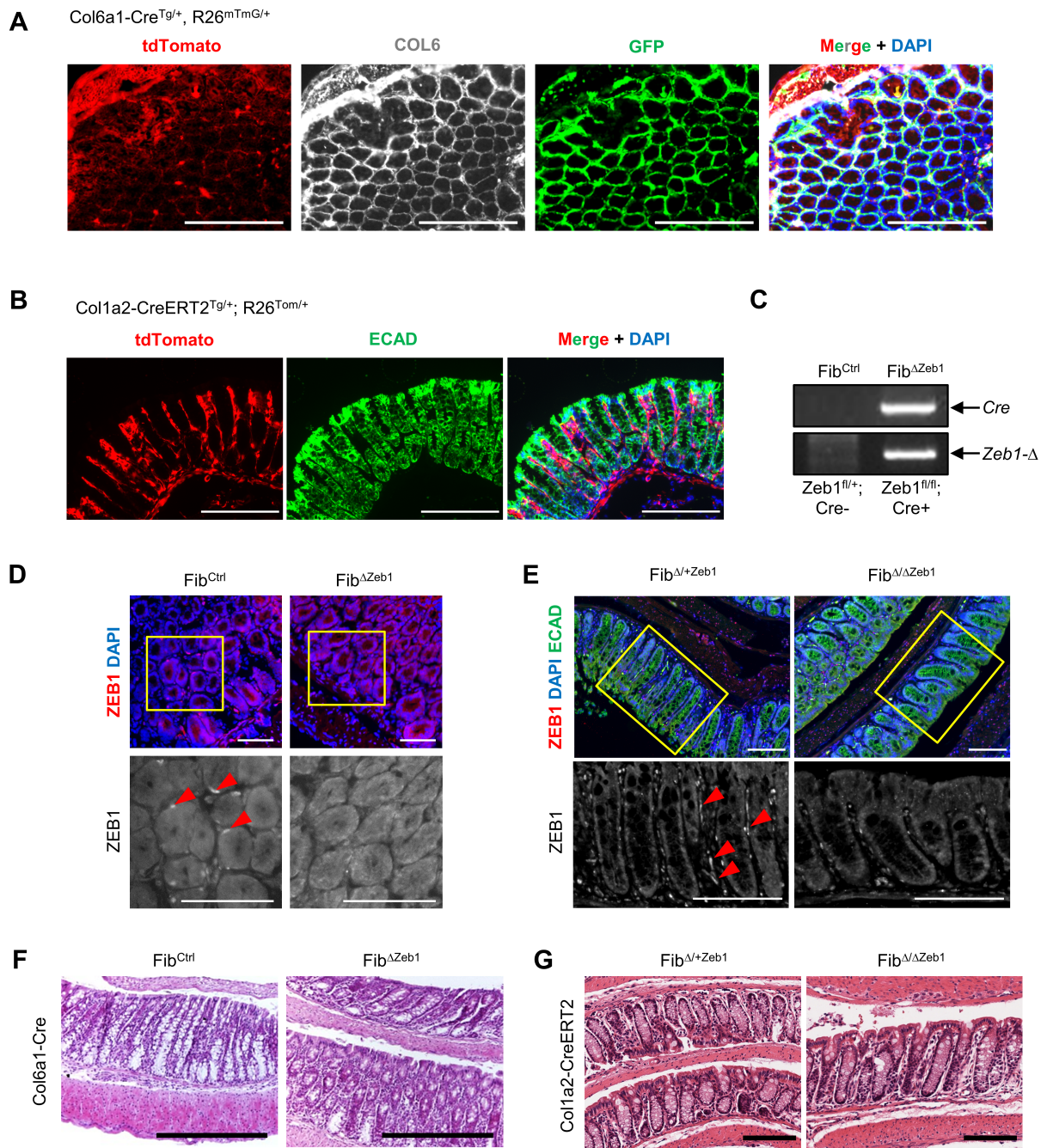


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Appendix Fig. S1. Loss of *Zeb1* in fibroblasts cells does not affect intestinal homeostasis.

(A) Col6 immunofluorescence (IF) and DAPI staining on colon cryosections of Col6a1-Cre^{Tg/+};Rosa26-mTmG^{Tg/+} mice. Overlay with tdTomato and GFP fluorescence. Scale bar: 200 μ m.

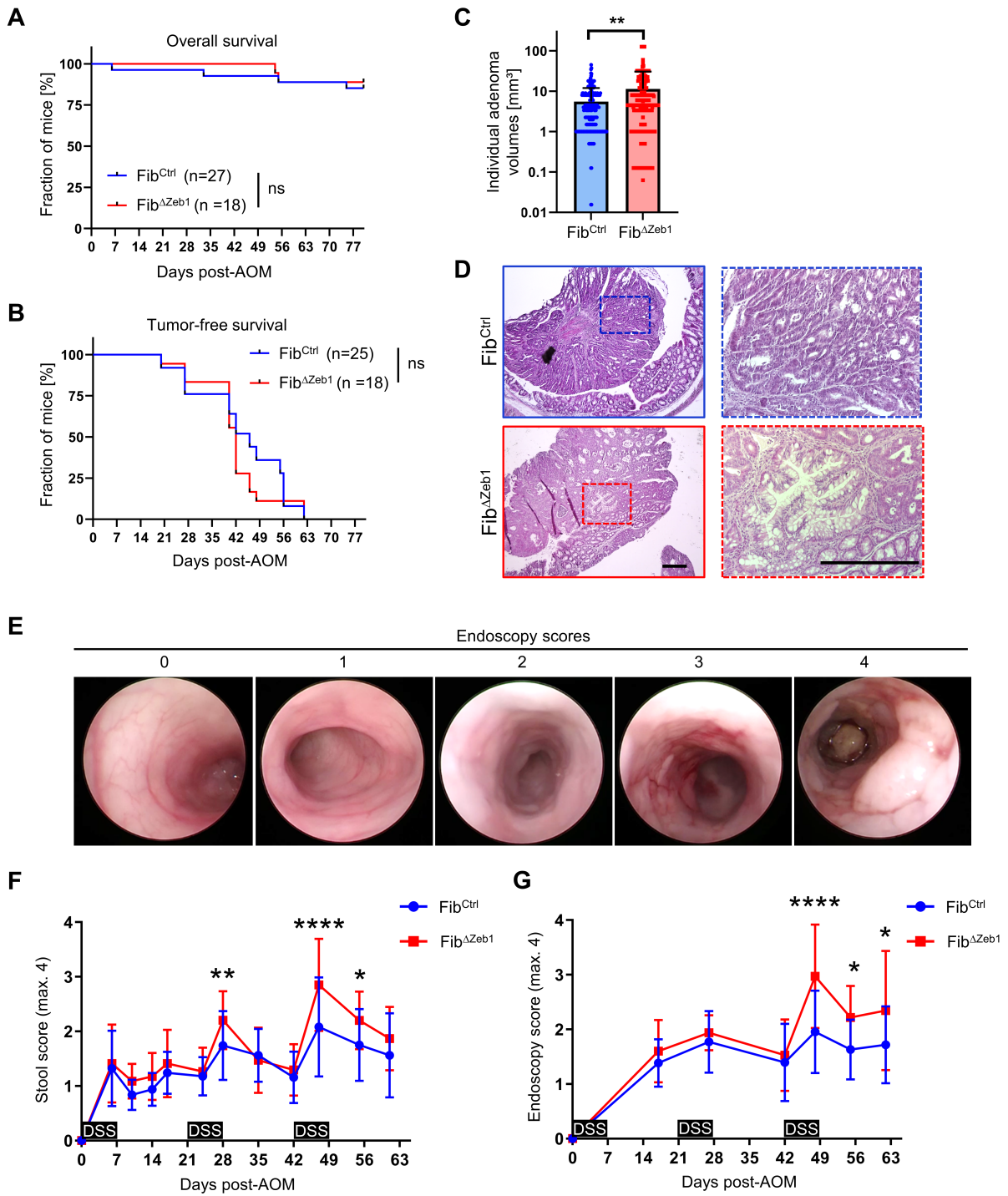
(B) IF of tdTomato, E-cadherin and DAPI on colon sections of Col1a2-CreERT^{Tg/+};Rosa26-tdTomato^{Tg/+} mice. Scale bar: 200 μ m.

(C) Genotyping of colon DNA confirms presence of Cre transgene and Col6a1-Cre induced recombination of *Zeb1* in indicated mouse genotypes.

(D, E) ZEB1 IF and DAPI staining on colon sections of Fib^{Ctrl} (*Zeb1*^{fl/fl};Col6a1-Cre^{+/+}) and Fib ^{Δ Zeb1} (*Zeb1*^{fl/fl};Col6a1-Cre^{Tg/+}) mice **(D)** and ZEB1/E-cadherin IF and DAPI staining on colon sections of heterozygous Fib ^{Δ /+Zeb1} (*Zeb1*^{fl/+};Col1a2-CreERT2^{Tg/+}) and Fib ^{Δ Zeb1} (*Zeb1*^{fl/fl};Col1a2-CreERT2^{Tg/+}) tamoxifen-fed mice **(E)**. Bottom rows show magnification of ZEB1 of the marked areas in grayscale. Red arrowheads indicate ZEB1-positive stromal cells, which are absent in Fib ^{Δ Zeb1}. Scale bars: 100 μ m.

(F, G) H&E stainings of colon sections from Fib^{Ctrl} and Fib ^{Δ Zeb1} mice **(F)**, as well as of Fib^{+/ Δ Zeb1} and Fib ^{Δ Zeb1} tamoxifen-treated mice **(G)**. Scale bars: 200 μ m.

Data information: Scale bars represent 200 μ m (A-B,F-G) or 100 μ m (D-E).



Appendix Fig. S2. ZEB1 in fibroblasts moderately exacerbates AOM/DSS-induced colitis.

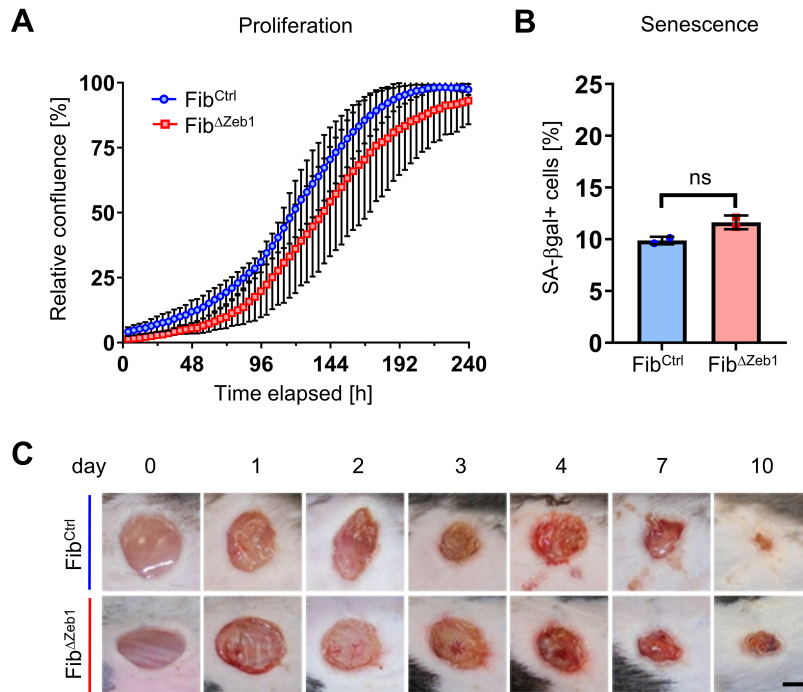
(A, B) Kaplan-Meier plots showing overall survival **(A)** and tumor-free survival **(B)** of Fib^{Ctrl} and Fib^{ΔZeb1} mice during AOM/DSS tumorigenesis. Numbers of experimental mice are indicated (Overall: p=0.7151, Tumor-free: p=0.3613, Mantel-Cox test).

(C) Quantification of volumes of individual adenomas after AOM/DSS tumorigenesis (n=204/207 for Fib^{Ctrl}/Fib^{ΔZeb1} depicted on logarithmic scale and derived from 23/16 mice, p=0.0015, Mann-Whitney test).

(D) Representative images of H&E stainings of colon adenoma sections from Fib^{Ctrl} and Fib^{ΔZeb1} mice. Higher magnification of the indicated region is shown on the right.

(E-G) Representative endoscopic images **(E)**, and associated stool **(F)** and endoscopy scores **(G)**. Quantification of intestinal inflammation based on stool scoring **(F)** and on endoscopy scoring **(G)**, also refer to images in E). n=25/17 **(F)** and n=25/18 **(G)** mice for Fib^{Ctrl}/Fib^{ΔZeb1}, Stool day 28, 47, 55: p= 0.0070, <00001, 0.0127, pUncorrected Fisher's LSD, Endoscopy day 48, 55, 62: p=<0.0001, 0.0343, 0.0195, Šídák's multiple comparisons test).

Data information: Data are presented as mean ± SD (C,F-G). Scale bars represent 300 μm (D).



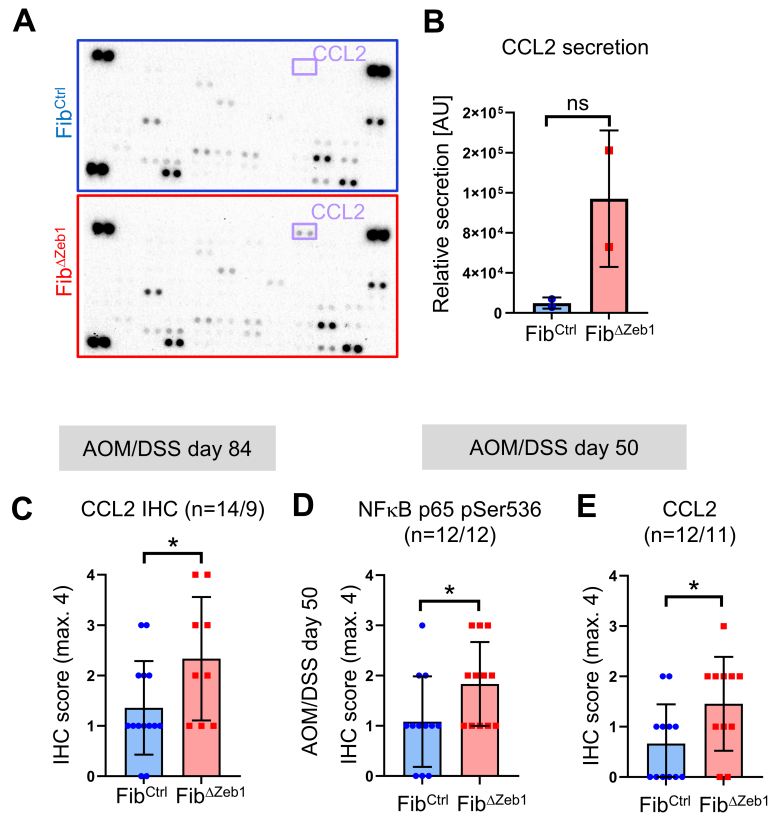
Appendix Fig. S3. Effects of *Zeb1* loss in fibroblasts on proliferation, senescence and wound healing.

(A) Proliferation assay by live-cell monitoring of cell confluence in Fib^{Ctrl} and Fib^{ΔZeb1} fibroblast cultures using IncuCyte (n=2/2 for Fib^{Ctrl}/Fib^{ΔZeb1}).

(B) Senescence-associated β-galactosidase (SA-β-gal) assay in cultured Fib^{Ctrl} and Fib^{ΔZeb1} fibroblasts (n=2/2 for Fib^{Ctrl}/Fib^{ΔZeb1}, p=0.0819, student's t-test).

(C) Representative images of the *in vivo* wound healing assay in Fib^{Ctrl} and Fib^{ΔZeb1} mice (n=16/22).

Data information: Data are presented as mean ± SD (A-B). Scale bars represent 2 mm (C).



Appendix Fig. S4. Increased CCL2 secretion in *Zeb1* deficient CAFs and IHC staining during AOM/DSS tumorigenesis.

(**A**, **B**) Secretome analysis of Fib^{Ctrl} and Fib^{ΔZeb1} CAFs isolated from AOM/DSS tumors using a secretome array showing one representative exposure of an arrayed membrane (**A**) and quantification using two independent pairs of CAFs (p=0.1639, student's t-test) (**B**).

(**C**) IHC-based quantification of stromal CCL2 in tumors 84 days after AOM/DSS tumorigenesis. Numbers of experimental mice per genotype are indicated (p=0.0414, student's t-test)

(**D**, **E**) IHC-based quantification of phospho-NFκB p65 (Ser536) (**D**) and stromal CCL2 (**E**) in colons 50 days after AOM/DSS tumorigenesis. Numbers of experimental mice per genotype are indicated (p65: p=0.0459, Ccl2: p=0.0388, student's t-test).

Data information: Data are presented as mean ± SD (B-E).

Appendix Table S1. Genotyping Primer sequences

Target gene	Primer direction	Primer sequence
<i>Zeb1 floxed</i>	forward	CGTGATGGAGCCAGAATCTGACCCC
<i>Zeb1 floxed</i>	reverse	GGCCTGTCTTTCTCAGCAGTGTGG
<i>Zeb1 deleted</i>	reverse	GCCATCTCACCAGCCCTTACTGTGC
<i>Cre</i>	forward	TCCCCGCAGAACCTGAAGATGTTCCG
<i>Cre</i>	reverse	GCCAGATTACGTATATCCTGGCAGC
<i>Col1a2-Cre</i>	forward	CAGGAGGTTTCGACTAAGTTGG
<i>Col1a2-Cre</i>	reverse	CATGTCCATCAGGTTCTTGC
<i>Col6a1-Cre</i>	forward	ACACACCGTAGCAACAGGAAGTC
<i>Col6a1-Cre</i>	reverse	TAGCTGGCCCAAATGTTGCT
<i>R26-mTmG</i>	forward	GTAATTGGCATATGATACACTTGATGTAC
<i>R26-mTmG</i>	reverse	AAAGTCGCTCTGAGTTGTTAT
<i>p53FRT</i>	forward	TCCCTTCCCTTATCCCTGTC
<i>p53FRT</i>	reverse	GGGCACAGTATCCACAGAG
<i>FLP</i>	forward	GAGCCTGCAGTTCAAGTACAAGAC
<i>FLP</i>	reverse	GTTGTAAGGGATGATGGTGAAGT
<i>Gabra1 (internal DNA control)</i>	forward	AACACACACTGGAGGACTGGCTAGG
<i>Gabra1 (internal DNA control)</i>	reverse	CAATGGTAGGCTCACTCTGGGAGATGATA

Appendix Table S2. Antibodies

Target antigen	used for	labeled	company	clone	catalogue number	working concentration	RRIDs
cl. CASP3	IHC	unconjugated	Cell Signaling	rabbit polyclonal	9661S	1:200 dilution	Cell Signaling Technology Cat# 9661 (also NYUIHC-314, 9661S, 9661L), RRID:AB_2341188
KI67	IHC	unconjugated	abcam	SP6	ab16667	1:300 dilution	Abcam Cat# ab16667, RRID:AB_302459
CD4	IHC	unconjugated	Sino Biol	Clone #1	50134-R001	1:500 dilution	Sino Biological Cat# 50134-R001, RRID:AB_2860490
CD8 α	IHC	unconjugated	Sino Biol	rabbit polyclonal	50389-T26	1:500 dilution	-
FOXP3	IHC	unconjugated	eBiosciences	FJK-16s	14-5773-82	1:200 dilution	Thermo Fisher Scientific Cat# 14-5773-82, RRID:AB_467576
PD-L1	IHC	unconjugated	LSBio	rabbit polyclonal	LS-C19686	1:300 dilution	-
B220	IHC	unconjugated	Thermo Fisher Scientific	RA3-6B2	14-0452-82	1:800 dilution	Thermo Fisher Scientific Cat# 14-0452-82, RRID:AB_467254
MCP1 (CCL2)	IHC	unconjugated	Thermo Fisher Scientific	rabbit polyclonal	PA5-115555	1:200 dilution	Thermo Fisher Scientific Cat# PA5-115555, RRID:AB_2893318
RELA/NF κ B p-p65 (p-Ser536)	IHC	unconjugated	Novus	rabbit polyclonal	NB100-82088	1:100 dilution	Novus Cat# NB100-82088, RRID:AB_1144569
ZEB1	IHC	unconjugated	Novus	rabbit polyclonal	NBP1-05987	1:250 dilution	Novus Cat# NBP1-05987, RRID:AB_1556166
CD4	IHC	unconjugated	Cell Signaling	D7D2Z	25229	1:100 dilution	Cell Signaling Technology Cat# 25229, RRID:AB_2798898
FOXP3	IHC	unconjugated	R&D Systems	1054C	MAB8214	1:500 dilution	R and D Systems Cat# MAB8214, RRID:AB_2929004
PD-L1	IHC	unconjugated	Cell Signaling	E1L3N	13684S	1:200 dilution	-
CD8	IHC	unconjugated	Cell Signaling	D4W2Z	98941	1:500 dilution	Cell Signaling Technology Cat# 98941, RRID:AB_2756376
F4/80	IHC	unconjugated	Life Technologies	BM8	MF48000	1:300 dilution	Thermo Fisher Scientific Cat# MF48000, RRID:AB_10376289
F4/80	IHC	unconjugated	Biorad	Cl:A3-1	MCA497	1:200 dilution	Bio-Rad Cat# MCA497, RRID:AB_2098196
anti-rabbit-polymer	IHC	HRP	DAKO		K4003		Agilent Cat# K4003 (also K4002), RRID:AB_2630375
anti-rat-HRP	IHC	HRP	Life Technologies	rabbit polyclonal	A18915		Thermo Fisher Scientific Cat# A18915, RRID:AB_2535690
ZEB1	IF	unconjugated	Sigma	rabbit polyclonal	HPA027524	1:200 dilution	Sigma-Aldrich Cat# HPA027524, RRID:AB_1844977
COL6	IF	unconjugated	abcam	EPR17072	ab182744	1:500 dilution	Abcam Cat# ab182744, RRID:AB_2847919
ZEB1	IF	unconjugated	Bethyl	rabbit polyclonal	IHC-00419	1:200 dilution	Bethyl Cat# IHC-00419 (also IHC-00419-T), RRID:AB_1659852
E-cadherin	IF	unconjugated	BD Biosciences	36	610181	1:200 dilution	BD Biosciences Cat# 610181, RRID:AB_397580
α SMA	IF	unconjugated	Thermo Fisher Scientific	1A4	14-9760-82	1:200 dilution	Thermo Fisher Scientific Cat# 14-9760-82 (also 14-9760), RRID:AB_2572996
anti-mouse	IF	Alexa Fluor 488	Thermo Fisher Scientific	donkey polyclonal	A21202	1:500 dilution	Thermo Fisher Scientific Cat# A-11055, RRID:AB_2534102

anti-rabbit	IF	Alexa Fluor 594	Thermo Fisher Scientific	donkey polyclonal	A21207	1:500 dilution	Thermo Fisher Scientific Cat# A-21207, RRID:AB_141637
anti-rabbit	IF	Alexa Fluor 647	Thermo Fisher Scientific	donkey polyclonal	A31573	1:500 dilution	Thermo Fisher Scientific Cat# A-31571, RRID:AB_162542
IκBα	Western blot	unconjugated	Cell Signaling	rabbit polyclonal	CS9242	1:5000 dilution	Cell Signaling Technology Cat# 9242, RRID:AB_331623
NFκB p65	Western blot	unconjugated	Cell Signaling	D14E12	CS8242	1:2000 dilution	Cell Signaling Technology Cat# 8242, RRID:AB_10859369
p-IκBα Ser32	Western blot	unconjugated	Cell Signaling	14D4	CS2859	1:1000 dilution	Cell Signaling Technology Cat# 2859 (also 2859S, 2859P, 2859L), RRID:AB_561111
p-NFκB p65 Ser536	Western blot	unconjugated	Cell Signaling	7F1	CS3036	1:1000 dilution	Cell Signaling Technology Cat# 3036, RRID:AB_331281
Zeb1	Western blot	unconjugated	Sigma	rabbit polyclonal	HPA027524	1:2000 dilution	Sigma-Aldrich Cat# HPA027524, RRID:AB_1844977
β-actin	Western blot	unconjugated	Sigma	AC-15	A5441	1:20000 dilution	Sigma-Aldrich Cat# A5441, RRID:AB_476744
anti-rabbit IgG-HRP	Western blot	unconjugated	Dianova	goat polyclonal	111-035-144	1:10000 dilution	Jackson ImmunoResearch Labs Cat# 111-035-144, RRID:AB_2307391
anti-mouse IgG-HRP	Western blot	unconjugated	Dianova	goat polyclonal	115-035-146	1:10000 dilution	Jackson ImmunoResearch Labs Cat# 115-035-146, RRID:AB_2307392
EPCAM	Phenoptics	unconjugated	Cell Signaling	E6V8Y	93790S	1:500 dilution	Cell Signaling Technology Cat# 93790, RRID:AB_2800214
VIM	Phenoptics	unconjugated	abcam	EPR3776	ab92547	1:100 dilution	Abcam Cat# ab92547, RRID:AB_10562134
αSMA	Phenoptics	unconjugated	Sigma	1A4	F3777	1:5000 dilution	Sigma-Aldrich Cat# F3777, RRID:AB_476977
C3	Phenoptics	unconjugated	abcam	EPR19394	ab200999	1:2000 dilution	Abcam Cat# ab200999, RRID:AB_2924273
MHCII	Phenoptics	unconjugated	Invitrogen	M5/114.15.2	14-5321-82	1:400 dilution	Thermo Fisher Scientific Cat# 14-5321-82, RRID:AB_467561
CD45	Phenoptics	unconjugated	Cell Signaling	D3F8Q	70257	1:500 dilution	Cell Signaling Technology Cat# 70257, RRID:AB_2799780
CD16/CD32	FACS	unconjugated	BD Biosciences	2.4G2	553142	1:100 dilution	BD Biosciences Cat# 553141, RRID:AB_394656
CD45	FACS	PE/Cy7	BioLegend	30-F11	103113	1:100 dilution	BioLegend Cat# 103114 (also 103113), RRID:AB_312979
CD31	FACS	PE	Thermo Fisher Scientific	390	12-0311-82	1:100 dilution	Thermo Fisher Scientific Cat# 12-0311-82, RRID:AB_465632
EPCAM	FACS	eFluor450	Thermo Fisher Scientific	G8.8	48-5791-82	1:100 dilution	Thermo Fisher Scientific Cat# 48-5791-82, RRID:AB_10717090
CD140a	FACS	APC	Thermo Fisher Scientific	APA5	17-1401-81	1:100 dilution	Thermo Fisher Scientific Cat# 17-1401-81, RRID:AB_529482

Appendix Table S3. qRT-PCR Primer sequences

Target mRNA	primer direction	primer sequence	UPL
<i>Zeb1</i>	forward	AGGTGATCCAGCCAAACG	93
<i>Zeb1</i>	reverse	AGGCCTGACATGTAGTCTTGTG	93
<i>Acta2</i>	forward	CTCTCTTCCAGCCATCTTTCAT	58
<i>Acta2</i>	reverse	TATAGGTGGTTTCGTGGATGC	58
<i>Gapdh</i>	forward	GGGTTCTATAAATACGGACTGC	52
<i>Gapdh</i>	reverse	CCATTTTGTCTACGGGACGA	52
<i>Gapdh #2</i>	forward	AGCTTGTCAACAACGGGAAG	9
<i>Gapdh #2</i>	reverse	TTTGATGTTAGTGGGGTCTCG	9
<i>Pdgfrb</i>	forward	TCAAGCTGCAGGTCAATGTC	67
<i>Pdgfrb</i>	reverse	CCATTGGCAGGGTGACTC	67
<i>Ccl2</i>	forward	CCAATGAGTAGGCTGGAGAGC	62
<i>Ccl2</i>	reverse	CCCATTCTTCTTGGGGTCA	62
<i>Cxcl1</i>	forward	GACTCCAGCCACACTCCAAC	83
<i>Cxcl1</i>	reverse	TGACAGCGCAGCTCATTG	83
<i>Hprt</i>	forward	AAGCTTGCTGGTGAAAAGGA	-
<i>Hprt</i>	reverse	TTGCGCTCATCTTAGGCTTT	-
<i>Tagln</i>	forward	CGGCCTTTAAACCCCTCACC	-
<i>Tagln</i>	reverse	GACTGCACTTCTCGGCTCAT	-
<i>Acta2 #2</i>	forward	AGGGCTGTTTTCCCATCCAT	-
<i>Acta2 #2</i>	reverse	GGCCATTCCAACCATTACTC	-
<i>Ccl2 #2</i>	forward	AGCCTACTCATTGGGATCATCTTG	-
<i>Ccl2 #2</i>	reverse	CAGCCAGATGCAGTTAACGC	-
<i>Cxcl1 #2</i>	forward	ACTGCACCCAAACCGAAGTC	-
<i>Cxcl1 #2</i>	reverse	TGGGGACACCTTTTAGCATCTT	-