

Major Resources Table

In order to allow validation and replication of experiments, all essential research materials listed in the Methods should be included in the Major Resources Table below. Authors are encouraged to use public repositories for protocols, data, code, and other materials and provide persistent identifiers and/or links to repositories when available. Authors may add or delete rows as needed.

Animals (in vivo studies)

Species	Vendor or Source	Background Strain	Sex	Persistent ID / URL
Mus musculus	Janvier Labs	C57BL/6J	M	https://www.janvier-labs.com/en/fiche_produit/c57bl-6nrj_mouse/

Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent - Male	<i>Mus musculus</i>	The Jackson Laboratory	C57BL/6NTac	Plk2 knock-out 129S.B6N- Plk2 ^{tm1Elaⁿ/J}	JAX stock #017001
Parent - Female	<i>Mus musculus</i>	The Jackson Laboratory	C57BL/6NTac	Plk2 knock-out 129S.B6N- Plk2 ^{tm1Elaⁿ/J}	JAX stock #017001

Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL
GAPDH	Santa-Cruz	sc-365062	1 : 1000		https://www.scbt.com/de/p/gapdh-antibody-g-9
EEF2	Abcam	ab40812	1 : 50.000		https://www.abcam.com/eef2elongation-factor-2-antibody-ab40812.html
CSQ	Abcam	ab3516	1 : 1.000		https://www.abcam.com/calsequestrin-antibody-ab3516.html
PLK2	Cell Signaling	#14812	1 : 1.000		https://www.cellsignal.com/products/primary-antibodies/plk2-d5r2b-rabbit-mab/14812?Ntk=Products&Ntt=14812
αSMA	Sigma-Aldrich	A5228	1 : 1.000 (WB) 1: 200 (ICC)		https://www.sigmaaldrich.com/catalog/product/sigma/a5228
ERK1/2	Cell Signaling	9102	1 : 1.000		https://www.cellsignal.com/products/primary-antibodies/p44-42-mapk-erk1-2-antibody/9102
Phospho-ERK1/2 (Thr202/Tyr204)	Cell Signaling	9101	1 : 1.000		https://www.cellsignal.com/products/primary-antibodies/phospho-p44-42-mapk-erk1-2-thr202-tyr204-antibody/9101
OPN	Abcam	ab8448	1 : 1.000		https://www.abcam.com/osteopontin-antibody-ab8448.html
FAPα	Abcam	ab53066	1 : 1.000		https://www.abcam.com/fibroblast-activation-protein-alpha-antibody-ab53066.html

Vimentin	Abcam	ab137321	1 : 1.000		https://www.abcam.com/vimentin-antibody-ab137321.html
Collagen 1	Abcam	ab34710	1 : 200		https://www.abcam.com/collagen-i-antibody-ab34710.html
Goat anti-mouse	Sigma-Aldrich	A3682	1 : 10:000		https://www.sigmaaldrich.com/catalog/product/sigma/a3682
Goat anti-rabbit	Jackson Immuno Research	111-035-045	1 : 10.000		https://www.jacksonimmuno.com/catalog/products/111-035-045
Alexa fluor 546 (goat-anti-mouse)	Thermo Fisher	Z25004	1 : 400		https://www.thermofisher.com/order/catalog/product/Z25000
Alexa fluor 546 (goat-anti-rabbit)	Thermo Fisher	Z25304	1 : 400		https://www.thermofisher.com/order/catalog/product/Z25304

RT-qPCR Primers

Species	Target	Fwd	Rev	Supplier
Homo sapiens	PLK2	N/A	N/A	qHsaCED0045278; BioRad
	DNMT1	N/A	N/A	qHsaCED0044343; BioRad
	DNMT3a	N/A	N/A	qHsaCID0010863; BioRad
<i>Mus musculus</i>	OPN	N/A	N/A	qMmuCED0040763; BioRad

DNA/cDNA Clones: N/A

Clone Name	Sequence	Source / Repository	Persistent ID / URL

Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
Human Atrial Fibroblast HAF-SRK01	Developed in-house as described: https://doi.org/10.1002/2211-5463.12896	Male, 83Y	RRID: CVCL_ZG36

Data & Code Availability: N/A

Description	Source / Repository	Persistent ID / URL

Other

Description	Source / Repository	Persistent ID / URL
EZ DNA Methylation Startup Kit	Zymo Research	https://www.zymoresearch.de/products/ez-dna-methylation-startup-kit

DOI [to be added]

Histology: Sirius red (Direct Red 80)	Sigma-Aldrich	https://www.sigmaaldrich.com/DE/en/product/sial/365548?context=product
HRP substrates: West Dura/West Femto	Thermo Fisher	https://www.thermofisher.com/de/de/home/life-science/protein-biology/protein-assays-analysis/western-blotting/detect-proteins-western-blot/western-blot-detection-reagents/chemiluminescent-western-blot-detection.html
Human Osteopontin ELISA Kit	Abcam, ab100618	https://www.abcam.com/human-osteopontin-elisa-kit-ab100618.html
Pierce™ BCA Protein Assay Kit	Thermo Fisher	https://www.thermofisher.com/order/catalog/product/23225
PureLink Genomic DNA Extraction kit	Invitrogen ThermoFisher	https://www.thermofisher.com/order/catalog/product/K182002
RNeasy Mini Kit	Qiagen	https://www.qiagen.com/de/products/discovery-and-translational-research/dna-rna-purification/rna-purification/total-rna/rneasy-mini-kit/
SsoAdvanced Universal SYBR® Green Supermix	Bio-Rad	https://www.bio-rad.com/de-de/sku/1725274-ssoadvanced-universal-sybr-green-supermix-2500-x-20-ul-rxns-25-ml-5-x-5-ml?ID=1725274