

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
ADAR1+/-	Jackson Laboratory	C57BL6J	M	https://www.jax.org/strain/016160
APOE-/-	Jackson Laboratory	C57BL6J	M	https://www.jax.org/strain/002052
Myh11-CreERT2 Eyfp ApoE-/-	Dr. Gary K. Owens University of Virginia	C57BL6J	M	N/A
Myh11-CreERT2 Eyfp ApoE-/- ADAR1+/-	Own Breeding Chen SY, Columbia, MO	C57BL6J	M	https://www.jax.org/strain/016159

Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent	ADAR1+/-	Jackson Laboratory	C57BL6J	M/F	https://www.jax.org/strain/016160
Parent	APOE-/-	Jackson Laboratory	C57BL6J	M/F	https://www.jax.org/strain/002052
Parent	Myh11-CreERT2 YFP ApoE-/-	Dr. Owens GK Univ of Virginia	C57BL6J	M	N/A
Parent	ADAR1fl/fl	Jackson Laboratory	C57BL6J	M/F	https://www.jax.org/strain/016159

Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Persistent ID / URL
GAPDH	Proteintech	1E6D9	WB (1:10,000)	https://www.ptglab.com/products/GAPDH-Antibody-60004-1-1g.htm
ADAR1	Cell Signaling Technology	81284	IHC (1:100) IP (1:100)	https://www.cellsignal.com/products/primary-antibodies/adar1-e6x9r-xp-rabbit-mab/81284?site-search-type=Products&N=4294956287&Ntt=adar1&fromPage=plp
ACTA2	Cell Signaling Technology	19245	WB (1:3000)	https://www.cellsignal.com/products/primary-antibodies/a-smooth-muscle-actin-d4k9n-xp-rabbit-mab/19245?site-search-type=Products&N=4294956287&Ntt=acta2&fromPage=plp
MMP-2	Abcam	ab97779	WB (1:1000)	https://www.abcam.com/mmp2-antibody-ab97779.html
MMP-9	Proteintech	10375-2-AP	WB (1:1000)	https://www.ptglab.com/products/MMP9-Antibody-10375-2-AP.htm
VCAM-1	Sigma Aldrich	SAB1406579	WB (1:1000)	https://www.sigmaaldrich.com/US/en/product/sigma/sab1406579
Calponin	Cell Signaling Technology	17819	WB (1:1000)	https://www.cellsignal.com/products/primary-antibodies/calponin-1-d8l2t-xp-rabbit-mab/17819
ADAR1	Santa Cruz	sc-271854	WB (1:500)	https://www.scbt.com/p/adar1-antibody-d-8
MYH11	Abcam	ab82541	WB (1:1000)	https://www.abcam.com/smooth-muscle-myosin-heavy-chain-11-antibody-ab82541.html
α-Tubulin	Sigma Aldrich	T5168	WB (1:1000)	https://www.sigmaaldrich.com/US/en/product/sigma/t5168

ACTA2	Sigma Aldrich	A2547-.5ML	IHC (1:100)	https://www.sigmaaldrich.com/US/en/product/sigma/a2547?context=product
IL-1 β	Cell Signaling Technology	12242	WB (1:1000)	https://www.cellsignal.com/products/primary-antibodies/il-1b-3a6-mouse-mab/12242
IRDye [®] 680RD Goat anti-Rabbit IgG	IRDye	926-68071	WB (1:15,000)	https://www.licor.com/bio/reagents/irdye-680rd-goat-anti-rabbit-igg-secondary-antibody
IRDye [®] 680RD Goat anti-Mouse IgG	IRDye	926-68070	WB (1:15,000)	https://www.licor.com/bio/reagents/irdye-680rd-goat-anti-mouse-igg-secondary-antibody
Goat anti-Mouse IgG (H+L), Texas Red-X	Invitrogen	T-862	2 μ g/mL	https://www.thermofisher.com/antibody/product/Goat-anti-Mouse-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/T-862
Goat anti-Rabbit IgG (H+L), FITC	Invitrogen	31635	2 μ g/mL	https://www.thermofisher.com/antibody/product/Goat-anti-Rabbit-IgG-H-L-Secondary-Antibody-Polyclonal/31635

DNA/cDNA Clones

Clone Name	Sequence	Source / Repository	Persistent ID / URL
Ad-shADAR1	<p>Top strand: 5'- CGC GTC GAT ACA ATC CTC AGT GTT CTC TGT ATG TAT TCA AGA GAT ACA TAC AGA GAA CAC TGA GGA TTG TAT CTT TTT TCC AAA-3'</p> <p>Bottom strand: 5'-AGC CAG GAT TTG GCG GAC CTT CTC GAA CCA CAA GTT CTC TGT GGT TCG AGA AGG TCC GCC AAA TCC TGG AAA AAA GTT TTC GA-3'</p>	The PI's Lab	N/A
OHu23723 (HuR plasmid)	<p>ATGTCTAATG GTTATGAAGA CCACATGGCC GAAGACTGCA GGGGTGACAT CGGGAGAACG AATTGATCG TCAACTACCT CCCTCAGAAC ATGACCCAGG ATGAGTTACG AAGCCTGTTC AGCAGCATTG GTGAAGTTGA ATCTGCAAAA CTTATTCCGGG ATAAAGTAGC AGGACACAGC TTGGGCTATG GCTTTGTGAA CTACGTGACC GCGAAGGATG CAGAGAGAGC GATCAACACG CTGAACGGCT TGAGGCTCCA GTCAAAAACC ATTAAGGTGT CGTATGCTCG CCCGAGCTCA GAGGTGATCA AAGACGCCAA CTTGTACATC AGCGGGCTCC CGCGGACCAT GACCCAGAAG GACGTAGAAG ACATGTTCTC TCGGTTTGGG CGGATCATCA ACTCGCGGGT CCTCGTGGAT CAGACTACAG GTTTGTCAG AGGGGTTGCG TTTATCCGGT TTGACAAACG GTCGGAGGCA GAAGAGGCAA TTACCAGTTT CAATGGTCAT AAACCCCCAG GTTCCTCTGA GCCATCACA GTGAAGTTTG CAGCCAACCC CAACCGAAC AAAACGTGG CACTCCTCTC GCAGCTGTAC</p>	Genescript	https://www.genescript.com/gene/homo-sapiens/1994/elavl1.html

	CACTCGCCAG CGCGACGGTT CGGAGGCCCC GTTACCACC AGGCGCAGAG ATTCAGGTT TCCCCATGG GCGTCGATCA CATGAGCGGG CTCTCTGGCG TCAACGTGCC AGGAAACGCC TCCTCCGGCT GGTGCATTTT CATCTACAAC CTGGGGCAGG ATGCCGACGA GGGGATCCTC TGGCAGATGT TTGGGCCGTT TGGTGCCGTC ACCAATGTGA AAGTGATCCG CGACTTCAAC ACCAACAAGT GCAAAGGGTT TGGCTTTGTG ACCATGACAA ACTATGAAGA AGCCGCGATG GCCATAGCCA GCCTGAACGG CTACCGCCTG GGGGACAAAA TCTTACAGGT TTCCTTCAAA ACCAACAAGT CCCACAAATA A		
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Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
Mouse abdominal aortic smooth muscle cells	Chen Lab	M	N/A

Primers

Name of Target	Forward Primer (5' to 3')	Reverse Primer (5' to 3')
pre-MMP2	CAC CAT CGC CCA TCA TCA AG	AGC CAG CAT AGC AAC TTA CCA
mature-MMP2	TCG CCC ATC ATC AAG TTC CC	CCT TGG GGC AGC CAT AGA AA
pre-MMP9	TGG ACA TTT ATT CTC CAC TGT GC	TCC CAC TTA CCT CTG GTG TGT C
mature-MMP9	TCG AAG GCG ACC TCA AGT G	TTC GGT GTA GCT TTG GAT CCA
Pre-VCAM1	TGAGCTTTGTTCCCAGCCTC	GTCATGGTTTGTGGCGAACA
mature- VCAM1	TACGGTACGGGGACCTGTTT	AAAAGACAAGTCAAATGAAGTAGCA
Pre-ACTA2	CAGTCGCCATCAGGGTAAGT	CGAGGTTCTGCAGAGACAGA
mature-ACTA2	GGAGAAGCCCAGCCAGTC	CACGATGGATGGGAAAACAG
RIP-MMP2	ACCCTAGGGGATGCTTGGAT	ACGAGCGAAGGGCATAACAAA
RIP-MMP9	TTCACCGGCTAAACCACCTC	TAACGCCCGAGTAGAGAGCCT
CYP	CAA CTC CCT CAA GAT TGT CAG CAA	GGC ATG GAC TGT GGT CAT GA
GAPDH	CGA CTG TGG ACA GCT CTA AT	CCT GAG CTA CAG AAG GAA TG

Other

Description	Source / Repository	Persistent ID / URL
DMEM	Corning , 17-207-CV	https://ecatalog.corning.com/life-sciences/b2b/US/en/Media,-Sera,-and-Reagents/Classical-Media/Dulbecco's-Modification-of-Eagle's-Medium-(DMEM)/Corning%C2%AE-DMEM-(Dulbecco%E2%80%99s-Modified-Eagle%E2%80%99s-Medium)/p/17-207-CV
FBS	FBS, R&D, S11550 H	https://www.rndsystems.com/products/fetal-bovine-serum-premium-select_s11550
L-glutamine	Hyclone , SH3003 4.01	https://www.thomassci.com/Laboratory-Supplies/Tissue-Culture-Media/_/HyClone-L-Glutamine-200-mM-Solution
Hematoxylin and eosin kit	American MasterTech, KTHNEPT	https://www.statlab.com/ds-h-e-stain-kitkthnept.html
Elastica van Gieson kit	Sigma Aldrich, HT25A	https://www.sigmaaldrich.com/catalog/product/sigma/ht25a?lang=en&region=US
IL-1 β	201-LB-025	https://www.rndsystems.com/products/recombinant-human-il-1-beta-il-1f2-protein_201-lb#product-reviews
DYNAREX ultrasound transmission gel	D-1243	https://www.becklee.com/1243.html
Protease Inhibitor	Sigma Aldrich, P8340	https://www.sigmaaldrich.com/catalog/product/sigma/p8340?lang=en&region=US
Phosphatase Inhibitor	Sigma Aldrich, P0044	https://www.sigmaaldrich.com/catalog/product/sigma/p0044?lang=en&region=US
Actinomycin D	Sigma Aldrich,	
Trizol	Thermo Scientific, 10296028	https://www.thermofisher.com/order/catalog/product/10296028#/10296028

iScript cDNA kit	Bio-Rad, 1708890	https://www.bio-rad.com/en-us/sku/1708890-iscrypt-cdna-synthesis-kit-25-x-20-ul-rxns?ID=1708890
SYBR Green master mix	GeneCopoeia, QP001	https://www.genecopoeia.com/product/qpcr-products/qpcr-kits-and-primers/qpcr-primers/
MyTaq™ HS Red Mix	BIO-25048	https://www.bioline.com/mytaq-hs-red-mix.html
EnzChek™ Gelatinase/Collagenase Assay Kit	E12055	https://www.thermofisher.com/order/catalog/product/E12055#/E12055
Duolink® In Situ Red Starter Kit Mouse/Rabbit	DUO92101-1KT	https://www.sigmaaldrich.com/US/en/product/sigma/duo92101
Osmotic minipumps	AP-2004	https://www.alzet.com/wp-content/uploads/2019/06/Specs-2004.pdf
Angiotensin II acetate salt	4006473.0100	https://shop.bachem.com/4006473.html
Collagenase type I	Sigma-Aldrich, C0130	https://www.sigmaaldrich.com/US/en/product/sigma/c0130
Collagenase type XI	Sigma-Aldrich, C7657	https://www.sigmaaldrich.com/US/en/product/sigma/c7657?gclid=EAlaIqobChMlhMS0y_Dg8glVPGpvBB0xWwy4EAAYASAAEgL_P_D_BwE
Hyaluronidase type I-s	Sigma-Aldrich, H1115000	https://www.sigmaaldrich.com/US/en/product/sial/h1115000
CD31 magnetic beads (Dynabeads)	Invitrogen 11155D	https://www.thermofisher.com/order/catalog/product/11155D#/11155D