

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

Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent - Male	Mouse	Zirngibl <i>et al.</i> (2002) ²³	129SvJ and CD1	Fes ^{-/-}	
Parent - Female	Mouse	Zirngibl <i>et al.</i> (2002) ²³	129SvJ and CD1	Fes ^{-/-}	
Parent - Male	Mouse		C57BL6/J		
Parent - Female	Mouse		C57BL6/J		
Parent - Male	Mouse	Jackson Laboratory	B6.129P2	Apoe ^{tm1Unc} /J	https://www.jax.org/strain/002052
Parent - Female	Mouse	Jackson Laboratory	B6.129P2	Apoe ^{tm1Unc} /J	https://www.jax.org/strain/002052

Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL
PRDM1	ThermoFisher	MA1-16874	1:1000 (Immunoblotting) 8-10µg/20µl (Super-shift assay)		https://www.thermofisher.com/antibody/product/Blimp-1-Antibody-clone-3H2-E8-Monoclonal/MA1-16874
β-actin	Sigma	A1978	1:4000		https://www.sigmaaldrich.com/SG/en/product/sigma/a1978?gclid=Cj0KQjwnNyUBhCZARIsAI9AYIH8SPKS-1qAWjv6s6JKcWJ5T0lw9EkYMtc_o4bmtQIBUh1nIMz9waAo2IEALw_wcB
FES	Abcam	ab108418	1:1000		https://www.abcam.com/FES-antibody-EPR32302-ab108418.html
H3K9ac	Sigma-Aldrich	06-942	5µg/500µl		https://www.sigmaaldrich.com/SG/en/product/mm/06942
Rabbit IgG	Abcam	ab37415	5µg/500µl		https://www.abcam.com/rabbit-igg-polyclonal-isotype-control-ab37415.html

m-IgGk BP	Santa Cruz Biotech	SC-516102	1:2000		https://www.scbt.com/p/m-igg-kappa-bp-hrp
rabbit IgG	Santa Cruz Biotech	SC-2357	1:2000		https://www.scbt.com/p/mouse-anti-rabbit-igg-hrp
β-actin	Sangon Biotech	D110001	1:1000		http://www.life-biotech.com/product/productDetailForEN.html?productID=102761&sumProductID=102761
Mouse IgG	Immunoway Biotechnology	RS23710	1:5000		http://www.immunoway.com/CHome/22/RS23710
human CD14	Miltenyi Biotec	130-110-576	1:50		https://www.miltenyibiotec.com/SG-en/products/cd14-antibody-anti-human-reafinity-rea599.html#fitc:30-tests-in-60-ul
human IgG1	Miltenyi Biotec	130-113-437	1:50		https://www.miltenyibiotec.com/SG-en/products/rea-control-antibody-s-human-igg1-reafinity-rea293.html#fitc:100-tests-in-200-ul
Rabbit IgG	Li-Cor Bioscience	926-32211	1:10000		https://www.licor.com/bio/reagents/irdye-800cw-goat-anti-rabbit-igg-secondary-antibody
Rabbit IgG	Sigma-Aldrich	A6154	1:1000		https://www.sigmaaldrich.com/SG/en/product/sigma/a6154
MOMA2	Bio-Rad	MCA519G	1:250		https://www.bio-rad-antibodies.com/monoclonal/mouse-macrophages-monocytes-antibody-moma-2-mca519.html?f=purified
Rat IgG	Vector Laboratories	MP-7444	Ready to use as supplied		https://vectorlabs.com/immpress-hrp-anti-rat-igg-mouse-adsorbed-peroxidase-polymer-detection-kit.html
Rabbit IgG	Vector Laboratories	MP-7451	Ready to use as supplied		https://vectorlabs.com/immpress-hrp-goat-anti-rabbit-igg-peroxidase-polymer-detection-kit.html
CD68	Dako	PG-M1	1:30 of stock concentration 30µg/ml		https://www.agilent.com/en/product/immunohistochemistry/antibodies-controls/primary-antibodies/cd68-(dako-omnis)-76227
SMA	Dako	M-0635	1:200		https://www.agilent.com/store/productDetail.jsp?catalogId=M063501-2
Mouse IgM	Vector Laboratories	BA-2020-.5	1:300		https://vectorlabs.com/products/antibodies/biotinylated-goat-anti-mouse-igm-mu-chain
FES	Abcam	ab153841	1:500		https://www.abcam.com/fes-antibody-ab153841.html

Iba1	Abcam	ab15690	1:100		https://www.abcam.com/iba1-antibody-1022-5-ab15690.html
Rabbit IgG	ThermoFisher	A32731	1:300		https://www.thermofisher.com/antibody/product/Goat-anti-Rabbit-IgG-H-L-Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A32731
Mouse IgG	ThermoFisher	A32728	1:300		https://www.thermofisher.com/antibody/product/Goat-anti-Mouse-IgG-H-L-Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A32728
Gapdh	Proteintech	60004-1	1:2500		https://www.ptglab.com/products/GAPDH-Antibody-60004-1-Ig.htm
Mouse IgG	Sigma-Aldrich	A4416	1:4000		https://www.sigmaaldrich.com/SG/en/product/sigma/a4416
Fes	Abcam	ab153841	2µg/ml		https://www.abcam.com/fes-antibody-ab153841.html
Rabbit IgG	ThermoFisher	10500C	2µg/ml		https://www.thermofisher.com/antibody/product/Rabbit-IgG-Isotype-Control/10500C
Mouse IgG	ThermoFisher	10400C	2µg/ml		https://www.thermofisher.com/antibody/product/Mouse-IgG-Isotype-Control/10400C
αSMA	Sigma-Aldrich	A5228	5µg/ml		https://www.sigmaaldrich.com/GB/en/product/sigma/a5228
Mouse IgG	ThermoFisher	MA5-14453	10µg/20µl		https://www.thermofisher.com/antibody/product/Mouse-IgG1-clone-NCG01-Isotype-Control/MA5-14453
Rabbit IgG	ThermoFisher	A11008	2µg/ml		https://www.thermofisher.com/antibody/product/Goat-anti-Rabbit-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-11008
Mouse IgG	ThermoFisher	A21422	2µg/ml		https://www.thermofisher.com/antibody/product/Goat-anti-Mouse-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-21422

DNA/cDNA Clones

Clone Name	Sequence	Source / Repository	Persistent ID / URL

Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL

THP-1	ATCC	M	https://www.atcc.org/products/tib-202
HUVECs		Unknown	
Primary human coronary artery smooth muscle cells	Cell Applications	Unknown	https://www.cellapplications.com/human-coronary-artery-smooth-muscle-cells-hcasmc
RAW264.7	ATCC	M	https://www.atcc.org/products/tib-71

Data & Code Availability

Description	Source / Repository	Persistent ID / URL
Single-cell RNA-sequencing data from human atherosclerotic plaques	Dr Sander W. van der Laan (University of Utrecht)	s.w.vanderlaan-2@umcutrecht.nl

Other

Description	Source / Repository	Persistent ID / URL
Lymphoprep	STEMCELL Technologies	https://www.stemcell.com/lymphoprep.html
CD14 MicroBeads	Miltenyi Biotec	https://www.miltenyibiotec.com/SG-en/products/cd14-microbeads-human.html#gref
G418	ThermoFisher	https://www.thermofisher.com/order/catalog/product/10131035#/10131035
p-U6-sgRNA-EFS-Cas9-T2A-EGFP-WPRE	HongLi Technology	http://www.bioon.com.cn/show/index_269298.html
LentiCas9-Blast	Addgene	https://www.addgene.org/52962/
LentiGuide-Puro	Addgene	https://www.addgene.org/52963/
blasticidin	blasticidin	https://www.thermofisher.com/order/catalog/product/A1113903?SID=srch-hj-A1113903
Puromycin	ThermoFisher	https://www.thermofisher.com/order/catalog/product/A1113803?SID=srch-hj-A1113803
Histopaque-1077	Sigma	https://www.sigmaaldrich.com/SG/en/product/sigma/h8889?gclid=CjwKCAjw6raYBhB7EiwABge5Kj4bSBlryh5QbnWvzZABt7wO_kw6snS28mh20mcT9TtYL8TTXjNlgBoCeUcQAvD_BwE
RPMI 1640 media	Sigma	https://www.sigmaaldrich.com/SG/en/product/sigma/r8758?gclid=CjwKCAjw6raYBhB7EiwABge5KoN1Li4-MWPI5QefntAE-xlK3J_AUDRZW-TINbRMGPOFO8Wg_MpW7BoCymYQAvD_BwE
macrophage-colony stimulating factor	Miltenyl Biotech	https://www.miltenyibiotec.com/upload/assets/IM0001549.PDF
Trizol	ThermoFisher	https://www.thermofisher.com/order/catalog/product/15596018?SID=srch-srp-15596018
High-Capacity cDNA Reverse Transcription Kit	ThermoFisher	https://www.thermofisher.com/order/catalog/product/4368813?SID=srch-srp-4368813
SYBR-green qPCR master mix	Qiagen	https://www.qiagen.com/us/products/discovery-and-translational-research/pcr-qpcr-dpcr/real-time-pcr-enzymes-and-kits/probe-based-qpcr/quantinova-pcr-kits/?catno=208057

M-MLV reverse transcriptase	Promega	https://www.promega.co.uk/products/pcr/rt-pcr/m-mlv-reverse-transcriptase/?catNum=M1701
Random primers	Promega	https://www.promega.co.uk/Products/PCR/RT-PCR/Random-Primers/?catNum=C1181
Staurosporine	Alfa Aesar	https://alfaesar.com:4433/en/catalog/J62837
Dead Cell Apoptosis Kits	ThermoFisher	https://www.thermofisher.com/order/catalog/product/V13242
Millicell Hanging Cell Culture Insert	Merck-Millipore	https://www.sigmaaldrich.com/catalog/product/mm/mcep24h48?lang=en&region=GB
Cell Counting Kit (CCK-8)	Enzo Life Sciences	https://www.enzolifesciences.com/ALX-850-039/cell-counting-kit-8/
FITC Annexin V Apoptosis Detection Kit I	BD Pharmingen	https://wwwbdbiosciences.com/eu/applications/research/apoptosis/apoptosis-kits-sets/fitc-annexin-v-apoptosis-detection-kit-i/p/556547
Propidium iodide	Sigma-Aldrich	https://www.sigmaaldrich.com/catalog/product/sial/p4864?lang=en&region=GB&cm_sp=Insite-_-caContent_prodMerch_gruCrossEntropy-_-prodMerch10-2
Protease and Phosphatase Inhibitor Single-Use Cocktail	ThermoFisher	https://www.thermofisher.com/order/catalog/product/78443?SID=srch-hj-78443
nitrocellulose membrane	BIO-RAD	https://www.bio-rad.com/en-sg/SearchResults?search_api_fulltext=1620094
Protease Inhibitor Cocktail	Medchemexpress	https://www.medchemexpress.com/inhibitor-kit/protease-inhibitor-cocktail.html
cOmplete Mini Protease Inhibitor Cocktail	Sigma-Aldrich	https://www.sigmaaldrich.com/SG/en/product/roche/04693124001
T-PER Tissue Protein Extraction Reagent	ThermoFisher	https://www.thermofisher.com/order/catalog/product/78510
BCA Protein Quantification Kit	ThermoFisher	https://www.thermofisher.com/order/catalog/product/23227
Bis-Tris polyacrylamide gel	ThermoFisher	https://www.thermofisher.com/order/catalog/product/NP0335BOX
Amersham ECL Plus Western Blotting Detection Reagent	VWR	https://ie.vwr.com/store/product/3232766/western-blotting-detection-reagents-amersham-ecltm
Western Diet for Rodents (5TJN)	TestDiet	https://www.testdiet.com/cs/groups/lolweb/@testdiet/documents/web_content/mdrf/mdi2/~edisp/duc04_026663.pdf
H&E Staining Kit	Abcam	https://www.abcam.com/he-staining-kit-hematoxylin-and-eosin-ab245880.html
Trichrome Stain Kit	Sigma-Aldrich	https://www.sigmaaldrich.com/catalog/product/sigma/ht15?lang=en&region=GB
DAPI	ThermoFisher	https://www.thermofisher.com/order/catalog/product/D1306#/D1306
Cholesterol Assay Kit	Abcam	https://www.abcam.com/cholesterol-assay-kit-hdl-and-ldl/ab65390.html

Triglyceride Assay Kit	Abcam	https://www.abcam.com/triglyceride-assay-kit-quantification-ab65336.html
Pierce Agarose ChIP Kit	ThermoFisher	https://www.thermofisher.com/order/catalog/product/26156
pGL3-Control Vector	Promega	https://www.promega.co.uk/products/luciferase-assays/genetic-reporter-vectors-and-cell-lines/pgl3-luciferase-reporter-vectors/?catNum=E1741
pRL-TK	Promega	https://www.promega.co.uk/products/luciferase-assays/genetic-reporter-vectors-and-cell-lines/prl-renilla-luciferase-control-reporter-vectors/?catNum=E2241
Dual-Glo Luciferase Assay System	Promega	https://www.promega.co.uk/products/luciferase-assays/reporter-assays/dual_glo-luciferase-assay-system/?catNum=E2920
Stealth FES siRNA	ThermoFisher	https://www.thermofisher.com/order/genome-database/details/sirna/HSS103636?CID=&ICID=&subtype=
Stealth RNAi siRNA Negative Control, Med GC	ThermoFisher	https://www.thermofisher.com/order/catalog/product/12935300?SID=srch-hj-12935300
Opti-MEM	ThermoFisher	https://www.thermofisher.com/order/catalog/product/31985070?SID=srch-srp-31985070
Lipofectamine RNAiMAX	ThermoFisher	https://www.thermofisher.com/order/catalog/product/13778150?SID=srch-hj-13778150
FES TaqMan Gene Expression Assay	ThermoFisher	https://www.thermofisher.com/taqman-gene-expression/product/Hs00171375_m1?CID=&ICID=&subtype=
18s rRNA TaqMan Gene Expression Assay	ThermoFisher	https://www.thermofisher.com/taqman-gene-expression/product/Hs99999901_s1
PHOS-Select Iron Affinity Gel	Sigma-Aldrich	https://www.sigmaaldrich.com/GB/en/product/sigma/p9740
TMT10plex Isobaric Mass Tagging Kit	ThermoFisher	https://www.thermofisher.com/order/catalog/product/90113