

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
C57BL/6J	Jackson laboratories, stock #000664	C57BL/6J	M, F	https://www.jax.org/strain/000664
ApoE ^{-/-}	Jackson laboratories, stock #002052	C57BL/6J	M, F	https://www.jax.org/strain/002052
NLRP3	Jackson laboratories, #021302	C57BL/6J	M, F	https://www.jax.org/strain/021302

Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent - Male					
Parent - Female					

GEO accession numbers

GEO accession numbers	GSE220121

Antibodies

Target Antigen	Vendor	Catalog #	Working concentration	Persistent ID / URL
CD16/CD32	Fisher Scientific	BDB553141	1:100	https://www.fishersci.com/shop/products/anti-cd16-cd32-clone-2-4g2-bd/BDB553141
Ly-6C,	Fisher Scientific	BDB562728	1:100	https://www.fishersci.com/shop/products/anti-mouse-ly-6c-pe-cf594-clone-al-21-bd-50-g-pe-cf594/BDB562728
Ly 6G	Fisher Scientific	BDB561236	1:100	https://www.fishersci.com/shop/products/anti-ly-6g-alexa-fluor-700-clone-1a8-bd-50-g-alexa-fluor-700/BDB561236
CD25	BD biosciences	564370	1:100	https://www.bdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/bv421-rat-anti-mouse-cd25.566228
Cd8	Fisher Scientific	BDB561097	1:100	https://www.fishersci.com/shop/products/anti-cd8a-pe-cy-7-clone-53-6-7-bd-25-g-pe-cy7/BDB561097
CD192 (CCR2)	BD biosciences	747964	1:100	https://www.bdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/bv711-rat-anti-mouse-cd192-ccr2.747964
F4/80	Fisher Scientific	BDB565613	1:100	https://www.fishersci.com/shop/products/msf4-80-pe-cf594-t45-2342-50ug/BDB565613
Mer	BD biosciences	747837	1:100	https://www.bdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/bv421-rat-anti-mouse-mer.747837
CD20	BD biosciences	752753	1:100	https://www.bdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/bv711-rat-anti-mouse-cd20.752753

Il 6	Fisher Scientific	BDB561363	1:100	https://www.fishersci.com/shop/products/anti-il-6-alexa-fluor-488-clone-mp5-20f3-bd-50-g-alexa-fluor-488/BDB561363
CD45	Fisher Scientific	BDB552848	1:100	https://www.fishersci.com/shop/products/anti-cd45-pe-cy-7-clone-30-f11-bd-0-1mg-pe-cy-7/BDB552848
Foxp3	Fisher Scientific	BDB560408	1:100	https://www.fishersci.com/shop/products/anti-foxp3-r-pe-clone-mf23-bd/BDB560408
CD4	Fisher Scientific	BDB553047	1:100	https://www.fishersci.com/shop/products/anti-cd4-fitc-clone-rm4-5-bd-1/BDB553047
CD11c	Fisher Scientific	BDB565872	1:100	https://www.fishersci.com/shop/products/cd11c-hamster-anti-mouse-apc-r700-clone-n418-bd-horizon-1/BDB565872
CD31	BD Pharmingen	563356	1:100	https://www.bdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/bv421-rat-anti-mouse-cd31.563356
CD45	BD Biosciences	567376	1:100	https://www.bdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/alexa-fluor-647-rat-anti-mouse-cd45.567376
Purified Rat Anti-Mouse CD16/CD32	BD Pharmingen	553141	1:100	https://www.bdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/purified-rat-anti-mouse-cd16-cd32-mouse-bd-fc-block.553141
NLRP3	R&D Systems	IC7578V-100UG	1:100	https://www.rndsystems.com/products/human-mouse-nlrp3-nalp3-alexa-fluor-405-conjugated-antibody-768319_ic7578v
S100A8/A9 Antibody	Novus Biologicals	NBP2-47667AF594	1:100	https://www.novusbio.com/products/s100a8-a9-antibody-mac387_nbp2-47667af594
Anti-IgG2b κ, Mouse, BV421, Clone: 27-35, Isotype Control, BD	Fisher Scientific	BDB562748	1:100	https://www.fishersci.com/shop/products/anti-igg2b-mouse-clone-27-35-isotype-control-bd-1/BDB562748
APC Mouse IgG1 κ Isotype Control	Fisher Scientific	BDB554681	1:100	https://www.fishersci.com/shop/products/anti-igg1-mouse-apc-clone-mopc-21-isotype-control-bd-3/BDB554681?searchHijack=true&searchTerm=554681&searchType=RAPID&matchedCatNo=554681

PE-CF594 Mouse IgG1, κ Isotype Control	Fisher Scientific	BDB562292	1:100	https://www.fishersci.com/shop/products/anti-klh-pe-cf594-clone-x40-bd/BDB562292?searchHijack=true&searchTerm=BD B562292&searchType=RAPID&matchedCatNo=BD B562292
pSMAD3	Abcam	ab52903	1:1000	https://www.abcam.com/smad3-phospho-s423--s425-antibody-ep823y-ab52903.html
Total SMAD3	Abcam	ab40854	1:1000	https://www.abcam.com/smad3-antibody-ep568y-ab40854.html
α-SMA	Sigma-Aldrich	A5228	1:400	https://www.sigmaaldrich.com/US/en/product/sigma/a5228
α-Actinin	Sigma-Aldrich	SAB4503474	1:200	https://www.sigmaaldrich.com/US/en/product/sigma/sab4503474
Donkey anti-Rabbit, Alexa Fluor 488	Invitrogen	A-21206	1:400	https://www.thermofisher.com/antibody/product/Donkey-anti-Rabbit-IgG-H-L-Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-21206
Goat anti-Mouse, Alexa Fluor 647	Invitrogen	A-21236	1:400	https://www.thermofisher.com/antibody/product/Goat-anti-Mouse-IgG-H-L-Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-21236
IRDye 680LT Goat anti-Rabbit IgG	LI-COR Biosciences	926-68021	1:3000	https://www.licor.com/bio/reagents/irdye-680lt-goat-anti-rabbit-igg-secondary-antibody
IRDye® 800CW Goat anti-Mouse IgG	LI-COR Biosciences	925-32210	1:3000	https://www.licor.com/bio/reagents/irdye-800cw-goat-anti-mouse-igg-secondary-antibody

Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
K562 Cells	ATCC #CCL-243	Unknown	https://www.atcc.org/products/ccl-243
Neonatal rat ventricular myocytes	2–3-day old rat pups	M, F	
Neonatal rat ventricular fibroblasts	2-3 day old rat pups	M, F	

DOI [to be added]

Human PBMCs	iXCells Biotechnologies #10HU-003-CR5M	Unknown	https://www.ixcellsbiotech.com/human-primary-cells/human-pbmcs-cryopreserved
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Data & Code Availability

Description	Source / Repository	Persistent ID / URL

Other

Primers used for qPCR	Vendor	Assay ID	Catalog #
COL1A1	Applied Biosystems	Mm00801666_g1	4331182
COL3A1	Applied Biosystems	Mm00802296_g1	4331182
ANP	Applied Biosystems	Mm01255747_g1	4331182
BNP	Applied Biosystems	Mm01255770_g1	4331182
Eukaryotic 18S rRNA Endogenous Control	Applied Biosystems	-	4319413E

Other

Description	Vendor	Catalog #
Hematoxylin-Eosin	Sigma-Aldrich	HT1079
Trichrome Stain (Masson) Kit	Sigma-Aldrich	HT15
RNeasy Mini Kit	Qiagen	74104

DOI [to be added]

iScript cDNA synthesis kit	Bio-rad	170-8891
TaqMan Gene Expression Master Mix	Applied Biosystems	4369016
ProLong Gold antifade reagent with DAPI	Invitrogen	P36941
Antigen Unmasking Solution	Vector Lab Inc	H-3300
cell lysis buffer	Cell signaling Technology	9803S
Protease Inhibitor Cocktail	Sigma-Aldrich	P8340
Phosphatase Inhibitor Cocktail	Sigma-Aldrich	P0044
NE-PER Reagent	Pierce	78833
Bio-Rad Protein Assay Dye	Bio-rad	5000006
Odyssey blocking buffer	LI-COR Biosciences	927-40000
Immobilon-P PVDF membrane	EMD Millipore	IPVH00010
TGFβ1	Sigma-Aldrich	T7039
recombinant mouse IL-11	R&D Systems	418-ML-005
PureCol® 3 mg/ml, Type I collagen stock solution	Advanced Biomatrix	5005
BrdU labeling and detection kit	Roche	11296736001
BrdU	Sigma-Aldrich	B5002
Weigert's iron hematoxylin solution,Set	Sigma-Aldrich	HT1079-1SET
Deoxyribonuclease I bovine	Sigma-Aldrich	D5319
Hyaluronidase from bovine testes	Sigma-Aldrich	H3506
Collagenase from Clostridium histolyticum,Type-XI	Sigma-Aldrich	C7657
Collagenase from Clostridium histolyticum,Type I	Sigma-Aldrich	C0130
In Situ Cell Death Detection Kit, TMR red	Sigma-Aldrich	12156792910
Mouse Calprotectin ELISA Kit (S100A8/S100A9)	Abcam	ab263885
Curved Feeding Needle, 22 Gauge	Kent-Scientific	FNC-22-1.5-2

Bd apc BrdU Flow Kit	Fisher Scientific	BDB552598
PEG400	MedChem Express	HY-Y0873A
Tween 80	MedChem Express	HY-Y1891
MitoSOX™ Red Mitochondrial Superoxide Indicator, for live-cell imaging	Thermo Fisher Scientific	M36008
Ponatinib	LC Laboratories	P-7022
Dimethyl sulfoxide	MedChem Express	HY-Y0320
Ebioscience™ Cell Stimulation Cocktail (500X)	Thermo Scientific	00-4970-03
Protein Transport Inhibitor (Containing Monensin), BD GolgiStop™	Fisher Scientific	BDB554724
Ebioscience™ Foxp3 / Transcription Factor Staining Buffer Set	Thermo Scientific	00-5523-00
IL-1 beta Mouse Uncoated ELISA Kit	Thermo Scientific	88-7013-88
Bd cytofix/cytoperm Fixation/Permeabilization Solution Kit	Fisher Scientific	BDB554714
Gibco ack Lysing Buffer	Fisher Scientific	A1049201
Rpmi 1640 Medium	Thermo Scientific	11875093
BD™ Tuberculin Syringes, BD Medical, Syringe Only, Volume=1 mL	Fisher Scientific	14-823-434
Bouin's Solution	Fisher Scientific	50-320-05