

Supplementary Table 3: Supplemental experimental procedures and key resources

Experimental Models: Organisms/Strains			
Strain Abbreviation	Strain	Source	Identifier
Mouse: <i>C57BL/6</i>	C57BL/6J	Charles River	632
Mouse: <i>C57BL/6</i>	C57BL/6JRj	Janvier Labs	
Mouse: <i>Cx3cr1^{cre}:R26-tdTomato</i>	Tg(Cx3cr1-cre)MW126Gsat/Mmucd	MMRRC	036395-UCD
	Mouse: B6;129S6- <i>Gt(ROSA)26Sor^{tm9(CAG-tdTomato)Hze/J}</i>	The Jackson Laboratory	007905
Mouse: <i>DsRed</i>	STOCK Tg(ACTB-DsRed*MST)1Nagy/J, DsRed.T3	The Jackson Laboratory	005441
Mouse: <i>Cx3cr1^{creER}</i>	B6.129P2(C)- <i>Cx3cr1^{tm2.1(cre/ERT2)Jung/J}</i>	The Jackson Laboratory	020940
Mouse: <i>CSF1R^{creER}</i>	FVB-Tg(Csf1r-cre/Esr1*)1Jwp/J	The Jackson Laboratory	019098
Mouse: <i>iDTR</i>	C57BL/6- <i>Gt(ROSA)26Sortm1(HBEGF)Awai/J</i>	The Jackson Laboratory	007900
Mouse: <i>tdTomato</i>	B6;129S6- <i>Gt(ROSA)26Sor^{tm9(CAG-tdTomato)Hze/J}</i>	The Jackson Laboratory	007905
Mouse: <i>CD115DTR</i>	C57BL/6-Tg(Csf1r-HBEGF/mCherry)1Mnz/J	The Jackson Laboratory	024046
Mouse: <i>Cx3cr1^{gfp}</i>	B6.129P-Cx3cr1tm1Litt/J	The Jackson Laboratory	005582

Antibodies											
Antigen	Conjugation	Conc.	Isotype	Host	Reactivity	Clone	Source	Cat#	Lot#	Dilution	Application
ApoE	unconjugated	0.5 mg/ml	IgG	rabbit	Human/Mouse/Rat	16H22L18	Thermo Fisher	701241	1984882	1:200	IF
CD1c	PerCP/Cy5.5	0.2 mg/ml	IgG1, κ	mouse	human	L161	Biolegend	331513	B267879	1:500	FC

Antibodies											
Antigen	Conjugation	Conc.	Isotype	Host	Reactivity	Clone	Source	Cat#	Lot#	Dilution	Application
CD11b	PE/Cy7	0.2 mg/ml	IgG2b, κ	rat	mouse/human	M1/70	BioLegend	101216	B185646	1:500	FC
CD11b	AF 488	0.1mg/ml	IgG1, κ	mouse	human	LM2	BioLegend	393107	B261594	1:500	FC
CD14	PE-Cy7	0.2mg/ml	IgG1, κ	mouse	human	63D3	BioLegend	367111	B252403	1:500	FC
CD15	Brilliant Violet 421	50µg/ml	IgG1, κ	mouse	human	W6D3	BioLegend	323039	B263781	1:500	FC
CD20	Brilliant Violet 421	25µg/ml	IgG2b, κ	mouse	human	2H7	BioLegend	302329	B257594	1:500	FC
CD31	AF 647	0.5 mg/ml	IgG2a, κ	rat	mouse	MEC13.3	BioLegend	102516	234197	2.5 µg/m.	LSFM
CD31	PE	0.2mg/ml	IgG2a, κ	rat	mouse	MEC13.3	BioLegend	102507	B129965	1:500	FC
CD45.2	AF 700	0.5 mg/ml	IgG2a, κ	mouse	mouse	104	BioLegend	109822	B202497	1:500	FC
CD45	Brilliant Violet 421	12µg/ml	IgG2a, κ	mouse	mouse	30-F11	BioLegend	103133	B263588	1:500	FC
CD45	AF 700	0.1mg/ml	IgG1, κ	mouse	human	2D1	BioLegend	368513	B248833	1:500	FC
CD68	AF 594	0.5 mg/ml	IgG2a	rat	mouse	FA-11	BioLegend	137020	B239125	1:400	IF
CD68	AF 647	0.5 mg/ml	IgG2a	rat	mouse	FA-11	BioLegend	137004	B153907	1:400	IF
CD68	unconjugated	0.5 mg/ml	IgG2b, κ	mouse	human	Y1/82A	BioLegend	333801	B200949	1:200	IF
CD68	unconjugated	.0 mg/ml	IgG1, κ	mouse	mammals/human	KP1	Abcam	ab955	GR3230929-1	1:200	IF
CD68	AF 594	0.2 mg/ml	IgG2b	mouse	human	298807	R&D systems	IC20401T	1471045	1:200	IF
CSF1R	APC	0.2 mg/ml	IgG2a, κ	rat	mouse	AFS98	BioLegend	135510	B183456	1:500	FC
CSF1R	AF 647	0.5mg/ml	IgG2a, κ	rat	mouse	AFS98	BioLegend	135530	B256616	1:200	IF
Claudin 2	unconjugated	1.0 mg/ml	IgG	rabbit	mammals/human	polyclonal	Abcam	ab53032	GR314368-11	1:200	IF

Antibodies											
Antigen	Conjugation	Conc.	Isotype	Host	Reactivity	Clone	Source	Cat#	Lot#	Dilution	Application
Claudin 5	unconjugated	1.0 mg/ml	IgG	rabbit	mouse/human	polyclonal	Abcam	ab15106	GR3182385	1:200	IF
Claudin 13	unconjugated	1.0 mg/ml	IgG	rabbit	mouse	polyclonal	Invitrogen	PA1-24420	TA2507851C	1:200	IF
Connexin 43	unconjugated	1.0 mg/ml	IgG	rabbit	mammals/human	polyclonal	Sigma Aldrich	C6219	027144804V	1:200	IF
Donkey anti-Rabbit IgG	AF 647	2.0 mg/ml	IgG	donkey	rabbit	polyclonal	Life Technologies	A-31573	1563697	1:200	IF
Donkey anti-Rabbit IgG	AF 488	2.0 mg/ml	IgG	donkey	mouse	polyclonal	Life Technologies	A-21206	1644644	1:200	IF
E-Cadherin	PE	0.2 mg/ml	IgG1, κ	rat	mouse/human	DECMA-1	BioLegend	147303	B260705	1:500	FC
F4/80	AF 647	0.5 mg/ml	IgG2a, κ	rat	mouse	BM8	BioLegend	123122	B212680	1:400	IF, FC
F4/80	FITC	0.5 mg/ml	IgG2a, κ	rat	mouse	BM8	BioLegend	123108	B177257	1:400	IF
HLA-DR	PE	0.1mg/ml	IgG2b, κ	mouse	human	Tü36	BioLegend	361605	B261328	1:500	FC
IgG2b, κ Isotype ctrl	APC	0.2 mg/ml	IgG2b, κ	rat	-	RTK4530	BioLegend	400611		1:500	FC
Ki67	AF 647	0.5 mg/ml	IgG2a, κ	rat	mouse	16A8	BioLegend	652407	B238782	1:200	IF
Ly6C	AF 488	0.5 mg/ml	IgG2c, κ	rat	mouse	HK1.4	BioLegend	128022	B248739	1:400	FC
Ly6G	Brilliant Violet	0.2 mg/ml	IgG2a, κ	rat	mouse	1A8	BioLegend	127627	B193096	1:400	FC
Ly6G	FITC	0.5 mg/ml	IgG2a, κ	rat	mouse	1A8	BioLegend	127606	B175677	1:400	FC
Ly6G	AF 488	0.5 mg/ml	IgG2a, κ	rat	mouse	1A8	BioLegend	127626	B240194	1:400	IF
Ly6G	AF647	0.5 mg/ml	IgG2a, κ	rat	mouse	1A8	BioLegend	127610	B204928	1:200	IF, LSMF

Antibodies											
Antigen	Conjugation	Conc.	Isotype	Host	Reactivity	Clone	Source	Cat#	Lot#	Dilution	Application
MHCII	PE	0.2mg/ml	IgG2b, κ	rat	mouse	M5/114.15.2	BioLegend	107608	B130064	1:200	IF
Relm alpha	unconjugated	0.2mg/ml	IgG	rabbit	mouse	polyclonal	Abcam	Ab39626	GR128715-1	1:200	IF
Trem2	unconjugated	0.5 mg/ml	IgG2b	rat	mouse/human	RM0139-5J46	Abcam	ab86491	GR3207091-11	1:200	IF
Trem2	APC		IgG2B	rat	mouse/human	237920	R&D systems	FAB17291A	AADSO17111	1:500	FC
ZO-1	unconjugated	1.0 mg/ml	IgG	rabbit	mouse/human	polyclonal	EMD Millipore	AB2272	2905383	1:100	IF

Molecular dyes							
Dye	Conjugation/ Ex/EM [µm]	Conc.	Source	Cat#	Lot#	Dilution	Application
DAPI	340/488	1 µg/ml	Roche	10236276001	28114320	1:2000	IF
Phalloidin	Alexa Fluor 647	300 U	Thermo Fisher	A22287		1:100	IF
Phalloidin	Alexa Fluor 488	300 U	Thermo Fisher	A12379	1687886	1:100	IF
Sytox Blue	444/480	1 mM	Thermo Fisher	S34857		1:100	IF
Zombie Aqua™ Fixable Viability Kit	Excitation Laser 405nm, Maximum emission 516nm		BioLegend	423101		1:1000	FC

Chemicals, Reagents			
Reagent/Resource	Source	Cat#	Lot#
Aqua ad iniectabilia	Braun	6724092.00.00	152518061
BSA	Carl Roth	CP84.2	097255477

Chemicals, Reagents			
Reagent/Resource	Source	Cat#	Lot#
Cacodylic acid sodium salt trihydrate	Carl Roth	5169.2	
Cryofilm Type 2C(9)	Section-Lab Co. Ltd.	C-MK001-A2	H300128
Dako Fluorescence Mounting Medium	Dako North America Inc.	S3023	10134819
ddH2O	Invitrogen	10977-035	1896175
DNase	Sigma	9003-98-9	SLBV1446
D-Saccharose	Carl Roth	9097.1	108268247
Dulbeco's PBS (DPBS)	Sigma-Aldrich	D8537	1971145
DT (Diphtheria toxin)	Sigma-Aldrich	D0564	
EDTA (5.0 M, pH=8.0)	Invitrogen	AM9260G	00478853
EdU (EdU-Flow Cytometry Kit 488)	Baseclick GmbH	BCK-FC488-100	
Ethanol 70.0%	Carl Roth	64-17-5	238272008
Ethanol ≥98.9%	Carl Roth	64-17-15	118268980
Ethyl cinnamate	Sigma-Aldrich	112372	STBH1248
Glutaraldehyde	Carl Roth	4157.1	
Glycidether 100	Carl Roth	8619.2	
Glycidether Accelerator DMP-30	Carl Roth	8621.1	
Glycidether Hardener DBA	Carl Roth	8623.2	
Glycidether Hardener MNA	Carl Roth	8639.2	
(Hydropropyl)methyl cellulose	Sigma-Aldrich	9004-65-3	MKCB1715V
Imatinib Mesylate	Selleckchem	S1026	S102607

Chemicals, Reagents			
Reagent/Resource	Source	Cat#	Lot#
Isofluran	Abbvie		6070961
Osmium tetroxide	Carl Roth	8371.3	
Peanut oil	Sigma-Aldrich	8002-03-7	MKBD0023
Paraformaldehyde	Carl Roth	0335.3	
Saponin, from Quillaja bark	Apollo Scientific	BIS4332	AS439793
Tamoxifen	Biomol	10540-29-1	
Tamoxifen (Tamoxifen containing food)	envigo	TD.130859	
(Z)-4-Hydroxytamoxifen	Sigma Aldrich	H7904	
Tissue Tec O.C.T compound	Sakura Finetek GmbH	4583	1707301015
Tween80	Sigma-Aldrich	8002-03-7	BCBW3990

Software/Instruments		
Resource	Source	Identifier
CytExpert	Beckman Coulter, Brea, California, USA	Version 2.2.0.97
FlowJo	FlowJo, LLC	Version 7.6.5
Huygens Professional	Scientific Volume Imaging, The Netherlands, __http://svi.nl__	17.10
Horos	Horos Project, https://horosproject.org/	GPL 3.0
ImageJ	Rasband, W.S., U.S. National Institutes of Health, Bethesda, Maryland, USA, https://imagej.nih.gov/ij/	Version 1.8.0_112
Imaris	Bitplane AG, Zurich, Switzerland	Version 9.1
MacsQuantify™	Miltenyi Biotec GmbH, Bergisch Gladbach, Germany	Version 2.5

Software/Instruments		
Resource	Source	Identifier
Kaluza	Beckman Coulter, Brea, California, USA	Version 1.5a
Zen Blue	Zeiss, Oberkochen, Germany	Version 2.3
ClinScan 70/30 7 Tesla MRI System	Bruker Corporation, Billerica, MA USA	n.a.
CytoFLex S	Beckman Coulter, Brea, California, USA	n.a.
Leica TCS SP 5 II Confocal	Leica Microsystems, Wetzlar, Germany	n.a.
Leica CM 3050 S	Leica Microsystems, Wetzlar, Germany	n.a.
Microtome Reichert Ultracut S	Leica Microsystems, Wetzlar, Germany	n.a.
MoFlo XDP	Beckman Coulter, Brea, California, USA	n.a.
Nicon Eclipse Ni-U microscope	Nicon Instruments Europe B.V.	n.a.
Transmission electron microscope JEM 1400 Plus	Jeol GmbH, Freising, Germany	n.a.
Ultramicroscope II	LaVision BioTec GmbH, Bielefeld, Germany	n.a.
Zeiss Spinning Disc Axio Observer.Z1	Zeiss, Oberkochen, Germany	n.a.

IF = Immunofluorescence

FC = Flow cytometry

LSFM = Light sheet fluorescence microscopy

n.a. = not available