1	Supporting Information:			
2				
3	1) Materials and Methods			
4	2) Legend for Dataset S1			
5	3) Supplementary Figures			
6	4) Supplementary Tables			
7				

- 9
- 10 Animals
- 11

12	The C57BL/6J (CD45.1 and CD45.2), Cx3cr1 ^{-/-} , Csf1r ^{CreER} and Rosa26 ^{LSL-YFP} mice were				
13	purchased from the Jackson Laboratory (Bar Harbor, ME, USA). Flt3 ^{Cre} transgenic mice were				
14	kindly provided by Dr. Kory Levin (Washington University School of Medicine, St. Louis, MO				
15	USA). The Ccr2 ^{-/-} mice were originally kindly provided by Dr. Israel Charo (1), which were				
16	backcrossed nine times with the C57BL/6J mice as previously described (2). Because the <i>Flt3^{Cr}</i>				
17	transgene located on the Y chromosome, male $Flt3^{Cre}$ mice were crossed with female $Rosa26^{LSL}$				
18	^{YFP} mice to generate <i>Flt3^{Cre}-Rosa26^{LSL-YFP}</i> mice. Similarly, male <i>Flt3^{Cre}-Rosa26^{LSL-YFP}</i> mice were				
19	crossed with female Ccr2 ^{-/-} mice to obtain Flt3 ^{Cre} -Rosa26 ^{LSL-YFP} -Ccr2 ^{+/-} mice, which were further				
20	crossed with female Ccr2 ^{-/-} mice to generate Flt3 ^{Cre} -Rosa26 ^{LSL-YFP} -Ccr2 ^{-/-} mice. The Csf1r ^{CreER} -				
21	Rosa26 ^{LSL-YFP} mice were generated by crossbreeding Csf1r ^{CreER} mice with Rosa26 ^{LSL-YFP} mice.				
22	Our study protocols were approved by the Institutional Animal Care and Use Committee at the				
23	Boston University Medical Center (Boston, MA, USA) and at the University of Texas				
24	Southwestern Medical Center (Dallas, TX, USA).				
25					
26	Labeling yolk sac primitive macrophages and tracing their progeny.				
27					
28	$Csf1r^{CreER}$ mice were crossed with $Rosa26^{LSL-YFP}$ mice to obtain $Csf1r^{CreER}$ - $Rosa26^{LSL-YFP}$ mice.				
29	To date the age of embryos, limited-time cross was setup by putting male and female mice				
30	together after 10:00 pm, and vaginal plug was checked the next day before 8:00 am. Females				

with the presence of the plug was designated as day 0 post-conception before 12:00 pm and asday 0.5 after 12:00 pm.

34	4-Hydroxytamoxifen (4-OH) (H-7904, Sigma Aldrich, St Louise, MO, USA) induction of Cre
35	expression, Cre/lox recombination, and YFP expression by the CSF1R-expressing yolk sac
36	primitive MPs, was performed as described by Nakamura E. et al. (3). Briefly, 4-OH was first
37	dissolved at a concentration of 100 mg/ml in 100% Ethanol and then diluted to a final
38	concentration of 10 mg/ml into sterile sunflower oil (S-5007, Sigma Aldrich). The solution was
39	then injected intraperitoneally at a dose of 2 mg/mouse at day 8.5 of embryo (E 8.5). To
40	counteract the mixed estrogen agonist effect of 4-OH, which can result in late fetal abortions,
41	progesterone (P-3972, Sigma Aldrich) dissolved in sunflower oil was injected simultaneously at
42	a dose of 1 mg/mouse. Four weeks after birth, the pups were genotyped for Cre, and tissues were
43	collected for MP analysis following perfusion.
44	
44 45	Bone marrow transplantation
44 45 46	Bone marrow transplantation
44 45 46 47	Bone marrow transplantation Bone marrow cells were collected from the tibias and femurs of the donor mice (CD45.2
44 45 46 47 48	Bone marrow transplantation Bone marrow cells were collected from the tibias and femurs of the donor mice (CD45.2 background). After removing red blood cells using RBC lysis buffer (Biolegend, San Diego,
44 45 46 47 48 49	Bone marrow transplantation Bone marrow cells were collected from the tibias and femurs of the donor mice (CD45.2 background). After removing red blood cells using RBC lysis buffer (Biolegend, San Diego, CA, USA), bone marrow cells were re-suspended in sterile PBS at a concentration of 2×10 ⁷
44 45 46 47 48 49 50	Bone marrow transplantation Bone marrow cells were collected from the tibias and femurs of the donor mice (CD45.2 background). After removing red blood cells using RBC lysis buffer (Biolegend, San Diego, CA, USA), bone marrow cells were re-suspended in sterile PBS at a concentration of 2×10 ⁷ cells/ml. Recipient mice (CD45.1 background, 6-7 weeks of age) were sub-lethally irradiated at a
44 45 46 47 48 49 50 51	Bone marrow transplantation Bone marrow cells were collected from the tibias and femurs of the donor mice (CD45.2 background). After removing red blood cells using RBC lysis buffer (Biolegend, San Diego, CA, USA), bone marrow cells were re-suspended in sterile PBS at a concentration of 2×10 ⁷ cells/ml. Recipient mice (CD45.1 background, 6-7 weeks of age) were sub-lethally irradiated at a dose of 800 rad. Three hours after irradiation, donor bone marrow cells were intravenously
44 45 46 47 48 49 50 51 52	Bone marrow transplantation Bone marrow cells were collected from the tibias and femurs of the donor mice (CD45.2 background). After removing red blood cells using RBC lysis buffer (Biolegend, San Diego, CA, USA), bone marrow cells were re-suspended in sterile PBS at a concentration of 2×10 ⁷ cells/ml. Recipient mice (CD45.1 background, 6-7 weeks of age) were sub-lethally irradiated at a dose of 800 rad. Three hours after irradiation, donor bone marrow cells were intravenously injected into recipient mice at a dose of 2×10 ⁶ cells/mouse.

In vivo intravascular staining of CD45⁺ cells and perfusion

56	Mice were anesthetized by intraperitoneal injection of Ketamine/Xylazine solution provided by
57	the Animal Science Center of Boston University. Fluorescence-labeled anti-CD45 antibody was
58	then injected intravenously at a dose of 10 µg/injection. Five minutes after injection, blood was
59	sampled and mice were subsequently perfused with PBS for 10 min using a peristaltic pump.
60	
61	Preparation of single-cell suspension, flow cytometry analysis (FACS) and cell sorting
62	
63	Peritoneal cells were collected by washing with PBS. Cells were then pelleted by centrifuging at
64	300 g for 10 minutes and re-suspended in FACS staining buffer (PBS containing 2% normal
65	mouse serum (Invitrogen, Frederick, MA, USA) and 2% BSA (Sigma-Aldrich)).
66	
67	For all other tissues, single-cell suspension was prepared by collagenase/dispase digestion (4-6).
68	Briefly, each tissue was minced in 2.5 ml digestion solution (1 U/ml collagenase B and 1 U/ml
69	dispase II (Roche Diagnostics, Indianapolis, IN, USA) in PBS) and incubated at 37°C for 1 hour.
70	The reaction was terminated by adding 10 ml PBS containing 10% fetal bovine serum (FBS).
71	The mixture was then filtered through a 70- μ m cell strainer and centrifuged at 250 g for 5
72	minutes. The pellet was collected and the supernatant was centrifuged again at 250 g for 5
73	minutes. The pellet was combined with the pellet from the first centrifugation, washed with PBS,
74	and centrifuged at 670 g for 10 minutes. The pellet was re-suspended in 3 ml PBS and filtered
75	through a 40- μ m cell strainer. For brain, cell suspension was layered on equal volume of 50%
76	isotonic Percoll (Sigma-Aldrich) and centrifuged at 600 g for 25 minutes. Supernatant was then

77	discarded and cell pellet was re-suspended in FACS staining buffer. For skeletal muscle, heart				
78	and lung, cell suspension was layered on equal volume of the Lympholyte-M solution				
79	(Cedarlane, Burlington, NC, USA) and centrifuged at 2,095 g for 45 minutes. Cells at the				
80	interface were collected, centrifuged at 670 g for 10 minutes, and re-suspended in FACS staining				
81	buffer.				
82					
83	The antibodies used for flow cytometry were listed in the Supplementary Table 3. We used				
84	fluorescence-labelled corresponding normal IgG isotypes as negative controls for gating. All				
85	flows were done using LSR II (BD Bioscience, San Jose, CA, USA), and data were analyzed				
86	using Flowjo software (Tree Star, Inc., Ashland, OR, USA). Cell sorting was performed by the				
87	Flow Cytometry Core of University of Texas Southwestern Medical Center.				
88					
89	CD68 immunostaining				
90					
91	After perfusion with PBS for 10 minutes to remove intravascular circulating cells, muscles were				
92	collected with epimysium included and frozen in liquid nitrogen-chilled isopentane, sectioned at				
93	$8 \ \mu m$, stained with anti-CD68 antibody (FA-11, Bio-Rad, Hercules, CA, USA) as described				
94	previously (7).				
95					
96	Giemsa Staining				
97					

98 Slides containing a single layer of sorted macrophages were prepared by cytospin. The Giemsa
99 Stain reagent (Sigma Aldrich) was then used for staining following the manufacturer's
100 instruction.

101

102 Single cell-based mRNA sequencing

103

FACS-sorted MPs from quadriceps, diaphragm, peritoneum and lung of mice at 10 weeks of age 104 were collected by centrifugation and re-suspended in FACS buffer at a final concentration of 105 106 1,000 cells/ml. To minimize the individual variability, cells collected from 10 mice were pooled together for the analysis. Single-cell encapsulation with beads using 10× Genomics Chromium 107 Single Cell 3' v2 kit (PN 120235 and PN 120234 Module 1) was performed following the 108 109 manufacturer instructions (User Guide Rev A, 10× Genomics, Pleasanton, CA, USA). Briefly, 4 wells of a 10× microfluidic chip (PN 120236) were loaded each with an individual sample to 110 target 5,000 cells per sample. Single-cell gel beads in emulsion (GEMs) were generated and 111 reverse-transcription was performed in the emulsion prior to 12 cycles of cDNA amplification. 112 Quality control and quantification of the amplified cDNA were assessed by Bioanalyzer. 113 Libraries were constructed according to the manufacturer instructions (PN 120234 Module 2). 114 Each library was tagged with a different index for multiplexing (PN 120262) during sequencing. 115 Library quality controls were assessed by Bioanalyzer and quantified by Qubit and quantitative 116 117 PCR (KAPA Biosystems Quantification for Illumina platforms). Sequencing was performed on a HiSeq 2500 (Illumina, Inc., San Diego, CA, USA) using the following read length: 26 bp Read1 118 (cell barcode + UMI), 8 bp i7 index (sample index), and 98 bp Read2 (insert). 119

121 Single cell-based mRNA sequencing analysis

123	Cell Ranger version 3.0.0 (10x Genomics) was used to process the raw sequencing data. Raw
124	BCL files were converted to FASTQ files and aligned to mouse mm10 reference transcriptome.
125	Transcript counts of each cell were quantified using barcoded UMI and 10xBC sequences. The
126	gene x cell expression matrices were loaded to the R package Seurat version 3.0.0 for
127	downstream analyses. Cells with low quality were filtered out based on at least 200 genes being
128	detected per 1,000 UMIs and mitochondrial gene content. Only those genes found in more than 3
129	cells were retained. "LogNormalize", the Seurat default global-scaling normalization method,
130	was used. In this method UMI counts are first scaled by the total sequencing depth ('size
131	factors') followed by pseudocount addition and log-transformation.
132	
133	With the above filters in place we obtained 13,611 genes from 3,239 cells from the quadriceps
134	muscle macrophage sample, 13,231 genes from 2,730 cells from the diaphragm muscle
135	macrophages, 14,003 genes from 3,542 cells from the peritoneal macrophage sample and 14,759
136	genes 4,919 cells from the lung alveolar macrophages. The highly variable features (genes) for
137	this data were then calculated with "FindVariableFeatures" in Seurat which uses a mean
138	variability plot. Here average expression and dispersion per feature was calculated and features
139	were divided into bins to get z-scores for dispersion per bin.
140	
141	After regressing out the number of UMI and percentage of mitochondrial gene content, the
142	resultant data were scaled and dimensional reduction was performed with principle component

143 analysis and visualization using tSNE plots. The number of Principal Components ($n=5\sim7$) to use in downstream analysis was calculated based on a Jackstraw and elbow plot of the same. 144 For each sample, a Shared Nearest Neighbor (SNN) Graph was constructed with 145 "FindNeighbors" in Seurat by determining the k-nearest neighbors of each cell. The clusters 146 were then identified by optimizing this SNN modularity using the "FindClusters" function. This 147 allowed for a sensitive detection of rare cell types. We obtained 5-7 clusters for each sample with 148 a resolution of 0.3. There were small clusters identified as non-MPs and therefore were removed 149 from the following analysis. Four clusters for each muscle sample were presented and further 150 151 analyzed.

152

The differential expression testing was carried out using "negbinom" test in Seurat with a Likelihood ratio test which assumes an underlying negative binomial distribution suitable for UMI datasets like the 10X single cell transcriptome. This was carried out to get the top markers for each cluster. The genes identified as relatively overexpressed in a cluster as compared to all other cells in a sample were termed markers. A heatmap visualization of the top 15 markers per cluster has been shown for each sample and along with the functional enrichment analysis used to identify and name the clusters.

160

Specific marker distribution in clusters were represented as featureplots, violinplots andheatmaps using the Seurat tool.

163

164 To compare the clusters and cell types in all the samples, they were combined using the method

described by Stuart T. et al. (8), where Canonical Correlation Analysis is applied to identify

166	correspondences between samples and create a common reference. A t-SNE visualization was				
167	plotted to highlight the commonalties between samples Diaphragm and Quadriceps macrophages				
168	as compared to Peritoneal and Lung tissue macrophages.				
169					
170	Functional Enrichment Analysis				
171					
172	The top 65-70 markers [adj. p -value < 0.05] per cluster were then used to identify the functional				
173	enrichment categories using gprofiler (9, 10). We used pathway gene sets from biological				
174	processes of Gene Ontology (http://www.geneontology.org/) and molecular pathways of				
175	Reactome (http://www.reactome.org/), CORUM (11) and KEGG (12). Results from different				
176	databases were compared to ensure the reliability of the analysis. Results presented were from				
177	KEGG.				
178					
179	Statistical analysis				
180					
181	Data were analyzed with GraphPad Prism 8 software (GraphPad Software, San Diego, CA,				
182	USA) and individual values were plotted as Interleaved Scattered Plot with mean value				
183	indicated. The Mann-Whitney test was performed to compare between two groups; the Kruskal-				
184	Wallis test followed by Dunn's test was performed to compare multiple ($\geq=3$) groups. A <i>p</i> value				
185	of <0.05 was considered statistically significant.				
186					
187					
188	References:				

- 189 1. Landin Boring JG, Stephen W. Chensue, Steven L. Kunkel, Robert V. Farese, Jr., Hal E.
- Broxmeyer, and Israel F. Charo (1997) Impaired Monocyte Migration and Reduced Type
- 191 1 (Th1) Cytokine Responses in C-C Chemokine Receptor 2 Knockout Mice. *The Journal*
- *of Clinical Investigation* 100(10):2552-2561.
- 193 2. Peters W, Dupuis M, & Charo IF (2000) A mechanism for the impaired IFN-gamma
- production in C-C chemokine receptor 2 (CCR2) knockout mice: role of CCR2 in linking
 the innate and adaptive immune responses. *J Immunol* 165(12):7072-7077.
- 196 3. Nakamura E, Nguyen MT, & Mackem S (2006) Kinetics of tamoxifen-regulated Cre
- 197
 activity in mice using a cartilage-specific CreER(T) to assay temporal activity windows
- along the proximodistal limb skeleton. *Dev Dyn* 235(9):2603-2612.
- Wang X, Zhao W, Ransohoff RM, & Zhou L (2016) Identification and Function of
 Fibrocytes in Skeletal Muscle Injury Repair and Muscular Dystrophy. *J Immunol* 197(12):4750-4761.
- Zhao W, Lu H, Wang X, Ransohoff RM, & Zhou L (2016) CX3CR1 deficiency delays
 acute skeletal muscle injury repair by impairing macrophage functions. *FASEB J*30(1):380-393.
- 205 6. Zhao W, Wang X, Ransohoff RM, & Zhou L (2016) CCR2 deficiency does not provide
 206 sustained improvement of muscular dystrophy in mdx5cv mice. *FASEB J*.
- 207 7. Hill NR, Cook HT, Pusey CD, & Tarzi RM (2018) RIPK3-deficient mice were not
 208 protected from nephrotoxic nephritis. *BMC Nephrol* 19(1):61.
- Stuart T, *et al.* (2019) Comprehensive Integration of Single-Cell Data. *Cell* 177(7):1888 1902 e1821.

211	9.	Reimand J, Kull M, Peterson H, Hansen J, & Vilo J (2007) g:Profilera web-based
212		toolset for functional profiling of gene lists from large-scale experiments. Nucleic Acids
213		Res 35(Web Server issue):W193-200.
214	10.	Raudvere U, et al. (2019) g:Profiler: a web server for functional enrichment analysis and
215		conversions of gene lists (2019 update). Nucleic Acids Res 47(W1):W191-W198.
216	11.	Giurgiu M, et al. (2019) CORUM: the comprehensive resource of mammalian protein
217		complexes-2019. Nucleic Acids Res 47(D1):D559-D563.
218	12.	Kanehisa M, Furumichi M, Tanabe M, Sato Y, & Morishima K (2017) KEGG: new
219		perspectives on genomes, pathways, diseases and drugs. Nucleic Acids Res 45(D1):D353-

220 D361.

221 LEGEND FOR DATASET S1

- List of genes that are differentially expressed ($Log_2FC \ge 0.5$) by skeletal muscle resident
- 224 macrophages (SMRMPs) compared to peritoneal macrophages and lung alveolar macrophages.



Resident MPs are present in adult mouse skeletal muscle in the steady state. A. Quantification of expression level gauged by FACS mean fluorescence intensity (MFI) of MerTK, CD11c, Ly6C, CD206, CD163 and MHCII by ivCD45⁻CD45⁺CD11b⁺F4/80⁺CD64⁺ resident MPs. **B.** FACS analysis of F4/80 and Ly6G expression by CD45⁺ intramuscular cells. **C.** FACS analysis of Siglec F expression by CD45⁺F4/80⁺CD64⁻ cells.



Resident MPs of HSC (YFP⁺) and non-HSC (YFP⁻) origins proliferate similarly. FACS analysis of Ki67 expression by skeletal muscle resident MPs from $Flt3^{Cre}$ -Rosa26^{LSL-YFP} mice: A. dot blot; B. quantification of Ki67 expression based on mean fluorescence intensity (MFI). N = 6 mice/each group.



Bone marrow HSC-derived blood MOs contribute to postnatal skeletal muscle resident MPs. A. FACS analysis of CD45.1 and CD45.2 expression by blood MOs and skeletal muscle resident MPs at 4 weeks post bone marrow transplantation. **B.** Comparison of the skeletal muscle resident MP numbers in 4-week-old WT and CCR2KO mice. **C.** FACS analysis of CCR2 expression by skeletal muscle resident MPs in the *Flt3^{Cre}-Rosa26^{LSL-YFP}* mice at indicated ages.



Muscle type	Quadriceps			
Cluster name	Proliferating cluster	Ccr2 cluster	Cd209 cluster	Cluster 0
	Stmn1	Cd74	Cd209f	Aqp1
	Hmgb2	H2-Eb1	Retnla	Тррр3
	Birc5	H2-Aa	Cd209d	Ecm1
	Top2a	H2-Ab1	Cd209g	Cyr61
	Tubb5	Ccr2	Clec10a	Mafb
	Tuba1b	H2-DMb1	Ccl8	S100a6
	2810417H13Rik	Cd52	Fcna	Cd63
gene name	Ube2c	H2-DMa	Ednrb	Emp1
	Mki67	Cxcl2	Ccl6	Stab1
	Nusap1	Tmsb10	Cd209b	Gpr34
	Ccnb2	Phlda1	Wfdc17	Lgmn
	Cks1b	Bcl2a1b	Ccl24	Hexb
	Smc4	Mpeg1	Ly6e	Cd33
	Cdk1	Plbd1	Folr2	Lmna
	Cks2	Lyz1	Ninj1	Hpgds

D



Stmn1

Hmgb2

Birc5

Top2a

2810417H13Rik

Tubb5

Tuba1b

Ube2c

Mki67

Smc4

Ccnb2

Hist1h2ap

Cks1b

Nusap1

Cks2

gene name

H2-Eb1

Cd74

H2-Aa

H2-Ab1

Cd52

Ccr2

H2-DMb1

H2-DMa

Rgs1 Plbd1

Cx3cr1

Tmsb10

Clec4b1

Ccl4

Bcl2a1b

Egr1

Ccl7

Klf4

Dnajb1

Ccl2

Klf2

Fosb

Atf3

Hspa1b

Fos

Zfp36

Jun

Hsp90aa1

Rhob

ler3

Folr2

Lyve1

Ninj1

Ltc4s

Wfdc17

Pf4

F13a1

Ccl8

Fxyd2

Ly6e

Fcna

Fcgrt

Ccl24

Stab1

Serpinb6a

scRNAseq analysis identifies multiple clusters within skeletal muscle resident MPs. scRNAseq data of quadriceps or diaphragm MPs were analyzed individually. A & B. Feature plots showing single cell expression of MP marker genes adgre1 (F4/80) and fcgr1 (CD64) in cells from quadriceps (A) and diaphragm (B). C & D. Heatmaps of the top 15 most differentially expressed genes of each cluster in MPs isolated from quadriceps (C) and diaphragm (D).

S. Figure 5





Clusters within SMRMPs are functionally diverse. Violin plots showing expression of: **A.** Genes preferentially expressed by the *Ccr2* cluster; **B.** Genes preferentially expressed by the non-*Ccr2* clusters excluding the Proliferating cluster; **C.** Genes preferentially expressed by the *Klf2* cluster; **D.** Genes preferentially expressed by the *Cd209* cluster.

CCR2+ CCR2-

Giemsa staining of CCR2⁺ and CCR2⁻ resident MPs sorted from quadriceps and diaphragm muscles of wild-type C57BL/6J mice at 4-6 weeks of age.



Both CD209- and CD209+ subsets of MHCII¹⁰Lyve1^{hi} MPs have mixed HSC and non-HSC origins. MPs were collected from the quadriceps of *Flt3^{Cre}-Rosa26^{LSL-YFP}* mice at 10 months of age and subjected to FACS analysis of CD209 and YFP expression.

SUPPLEMENTARY TABLES

Supplementary Table 1

List of enriched pathways by top marker genes (adj. p-value < 0.05) of Ccr2 cluster and non-Ccr2 clusters in both quadriceps and diaphragm

	Ccr2 cluster	non-ccr2 clusters	
	mRNA translation	Metabolic pathways	
iceps	Antigen processing and presentation	C-type lectin receptor signaling pathway	
		Endocrine and other factor-regulated calcium reabsorption	
		Endocytosis	
nb		Arachidonic acid metabolism	
		Lysosome	
	Antigen processing and presentation	Endocytosis	
ε		chemokine signaling pathway	
ag		Synaptic vesicle cycle	
h l		Endocrine and other factor-regulated calcium reabsorption	
diap		Lysosome	
		Metabolic pathways	
		MAPK signaling pathway	

Supplementary Table 2

List of enriched pathways by top marker genes (adj. *p*-value < 0.05) of *Cd209* cluster in quadriceps and *Klf2* cluster in diaphragm

Cd209 cluster	Klf2 cluster	
Butyrophilin (BTN) family interactions	Regulation of DNA-templated transcription in response to stress	
Response to interferon	TNF signaling pathwy	
activation of immune response	ameboidal-type cell migration	
regulation of multi-organism process	response to topologically incorrect protein	
	response to mechanical stimulus	
	cellular response to external stimulus	
	Fluid shear stress and atherosclerosis	
	cell chemotaxis	

Supplementary Table 3

Information of antibodies used for flow cytometry analysis.

antigen targeted	flourenscence lable	Company	Cat. No.
CCR2	CCR2 BV421		150605
CD115	APC	invitrogen	17-1152-82
CD11b	PE	invitrogen	12-0112-82
CD11c	Alexa700	invitrogen	56-0114
CD163	PerCP-eFluor710	invitrogen	46-1631-80
CD206	Alexa647	BD Biosciences	565250
CD209	PE	BioLegend	833003
CD45	PerCP-Cy5.5	BD Biosciences	550994
CD45	PE-Cy7	invitrogen	25-0451-81
CD45.1	FITC	BD Biosciences	553775
CD45.2	PerCP-Cy5.5	invitrogen	45-0454-80
CD64	Alexa647	BD Biosciences	558539
CD64	BV421	BioLegend	139309
F4/80	APC	BioLegend	123116
F4/80	PE	BioLegend	123110
Ki67	PE	invitrogen	12-5698-80
Ki67	PE-Cy7	invitrogen	25-5698-80
Ly6C	PE-Cy7	BioLegend	128018
Ly6C	BV421	BioLegend	128031
Lyve1	PE-Cy7	invitrogen	25-0443-82
MerTK	Alexa700	R&D Systems	FAB5912N
MHC II	PE	BD Biosciences	553552
MHC II	BV421	BD Biosciences	562564
Siglec-F	BB515	BD Biosciences	566211