

## Supplementary Materials

Cardiac Inflammation in Genetic Dilated Cardiomyopathy Caused by *MYBPC3* Mutation

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**Running Title:** Inflammation in Dilated Cardiomyopathy

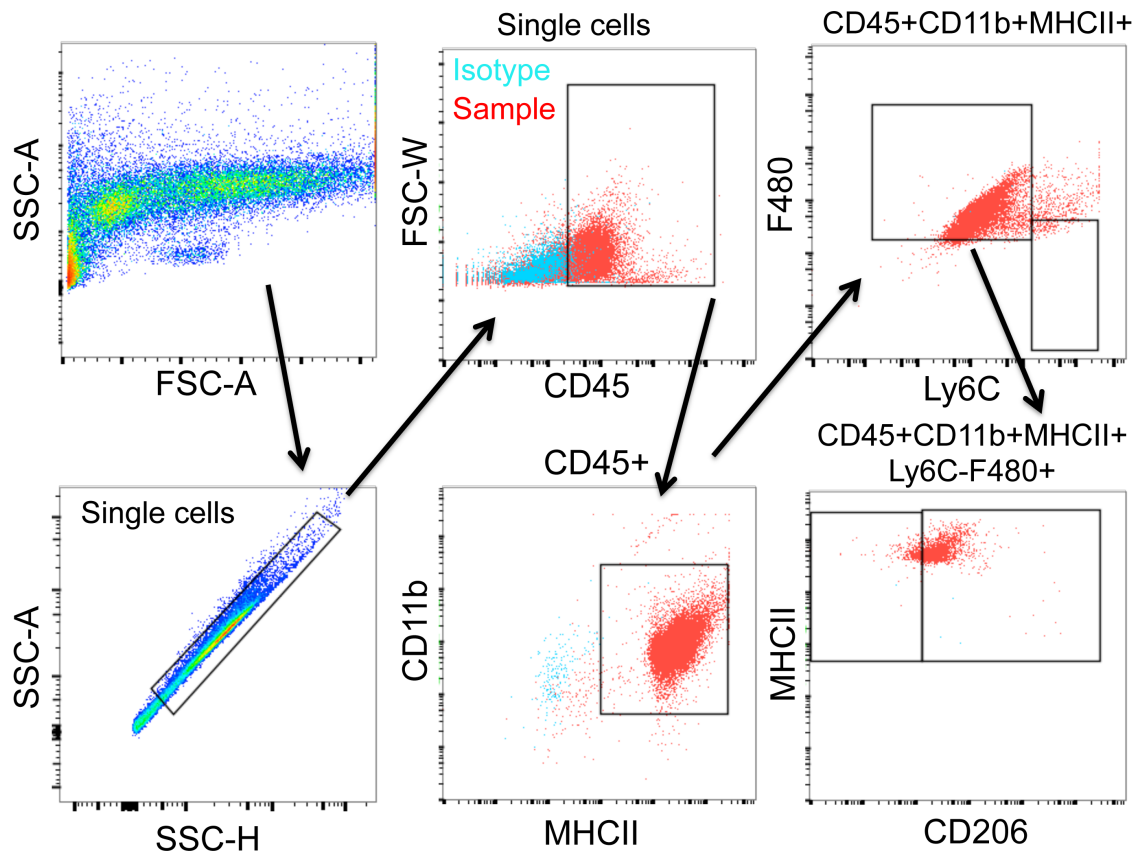
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**Supplementary Table 1: Known human DCM-related or DCM-associated genes enriched in upregulated and downregulated genes in DCM mice**

<b>Gene ID</b>	<b>Gene Symbol</b>	<b>Gene Description</b>	<b>DCM Mice</b>
27063	ANKRD1	ankyrin repeat domain 1	Upregulated
6347	CCL2	C-C motif chemokine ligand 2	Upregulated
6320	CLEC11A	C-type lectin domain family 11 member A	Upregulated
1734	DIO2	deiodinase, iodothyronine, type II	Upregulated
2070	EYA4	EYA transcriptional coactivator and phosphatase 4	Upregulated
3958	LGALS3	galectin 3	Upregulated
4314	MMP3	matrix metalloproteinase 3	Upregulated
4625	MYH7	myosin heavy chain 7	Upregulated
58529	MYOZ1	myozenin 1	Upregulated
4878	NPPA	natriuretic peptide A	Upregulated
4879	NPPB	natriuretic peptide B	Upregulated
27295	PDLIM3	PDZ and LIM domain 3	Upregulated
57142	RTN4	reticulon 4	Upregulated
5054	SERPINE1	serpin family E member 1	Upregulated
7076	TIMP1	TIMP metalloproteinase inhibitor 1	Upregulated
7099	TLR4	toll like receptor 4	Upregulated
3371	TNC	tenascin C	Upregulated
51086	TNNI3K	TNNI3 interacting kinase	Upregulated
203859	ANO5	anoctamin 5	Downregulated
1346	COX7A1	cytochrome c oxidase subunit 7A1	Downregulated
1493	CTLA4	cytotoxic T-lymphocyte associated protein 4	Downregulated
1063	CENPF	centromere protein F	Downregulated
3751	KCND2	potassium voltage-gated channel subfamily D member 2	Downregulated
9370	ADIPOQ	adiponectin, C1Q and collagen domain containing	Downregulated
155	ADRB3	adrenoceptor beta 3	Downregulated
8862	APLN	apelin	Downregulated
4318	MMP9	matrix metalloproteinase 9	Downregulated
4607	MYBPC3	myosin binding protein C, cardiac	Downregulated

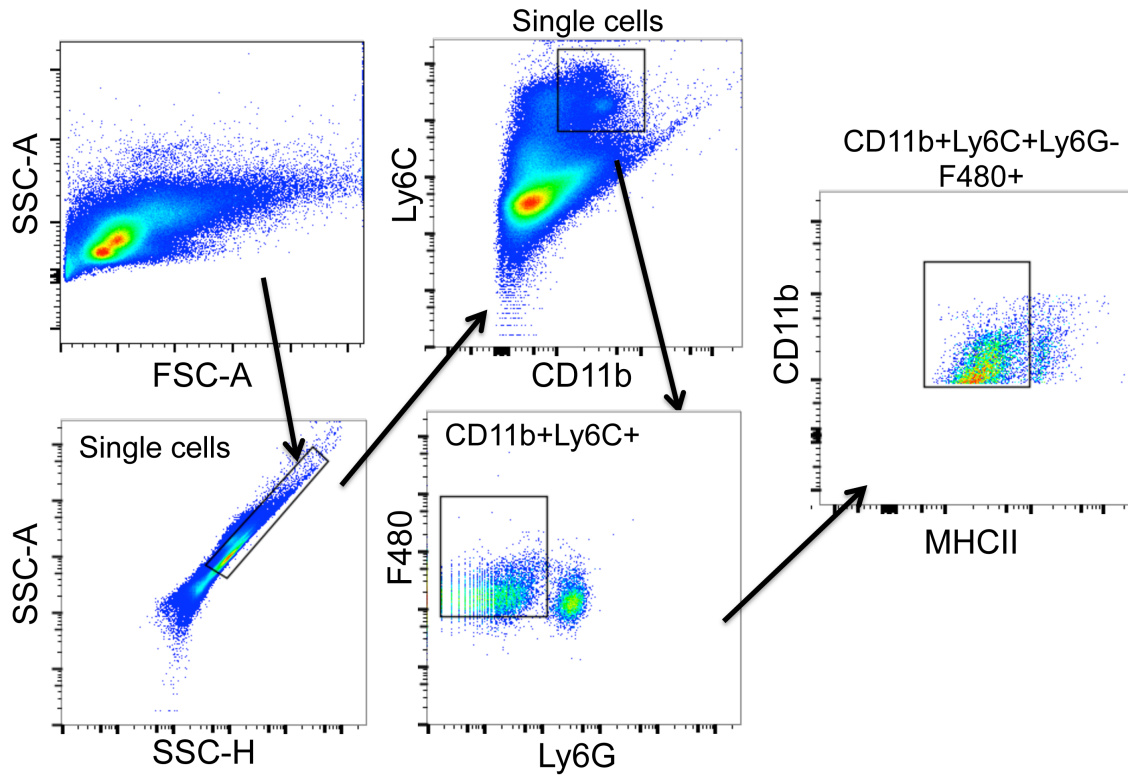
Supplementary Figures

Supplementary Figure 1.



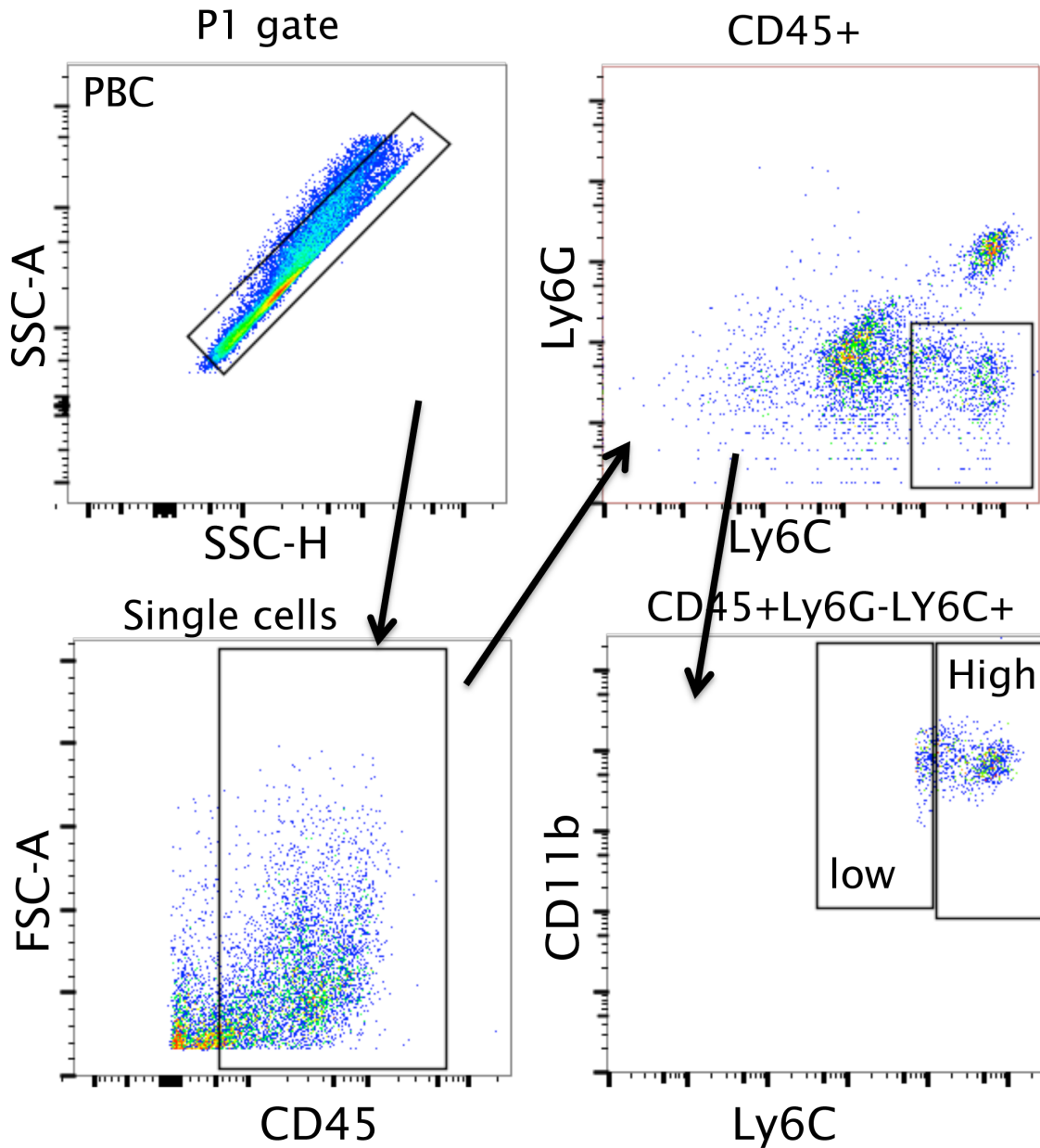
**Supplementary Fig. 1. Cardiac mononuclear cell gating strategy.** Representative gating strategy used to identify activated macrophages ( $CD45^+CD11b^+Ly6C^-MHCII^+F480^+$ ), proinflammatory M1 macrophages ( $CD45^+CD11b^+Ly6C^-MHCII^+F480^+CD206^-$ ), and anti-inflammatory M2 macrophages ( $CD45^+CD11b^+Ly6C^-MHCII^+F480^+CD206^+$ ) in WT and DCM hearts. FSC indicates forward scatter and SSC indicates side scatter.

## Supplementary Figure 2.



**Supplementary Fig. 2. Spleen gating strategy.** Representative gating strategy and used to identify splenic monocytes ( $CD11b^+Ly6C^+$  cells), monocytes within the red pulp region of the spleen ( $Ly6G^-CD11b^+Ly6C^+F480^{hi}$ ), and red pulp macrophages ( $CD11b^+Ly6C^+MHCII^{low}F480^{hi}$  cells) in WT and DCM spleens. FSC indicates forward scatter, and SSC indicates side scatter.

Supplementary Figure 3.



**Supplementary Fig. 3. Peripheral blood gating strategy.** Representative gating strategy used to identify total monocytes ( $CD45^+Gr1^-CD11b^+Ly6C^+$ ), proinflammatory monocytes ( $CD45^+Gr1^-CD11b^+Ly6C^{hi}$ ), and anti-inflammatory monocytes ( $CD45^+Gr1^-CD11b^+Ly6C^{low}$ ) within peripheral blood samples from WT and DCM mice. FSC indicates forward scatter, and SSC indicates side scatter.