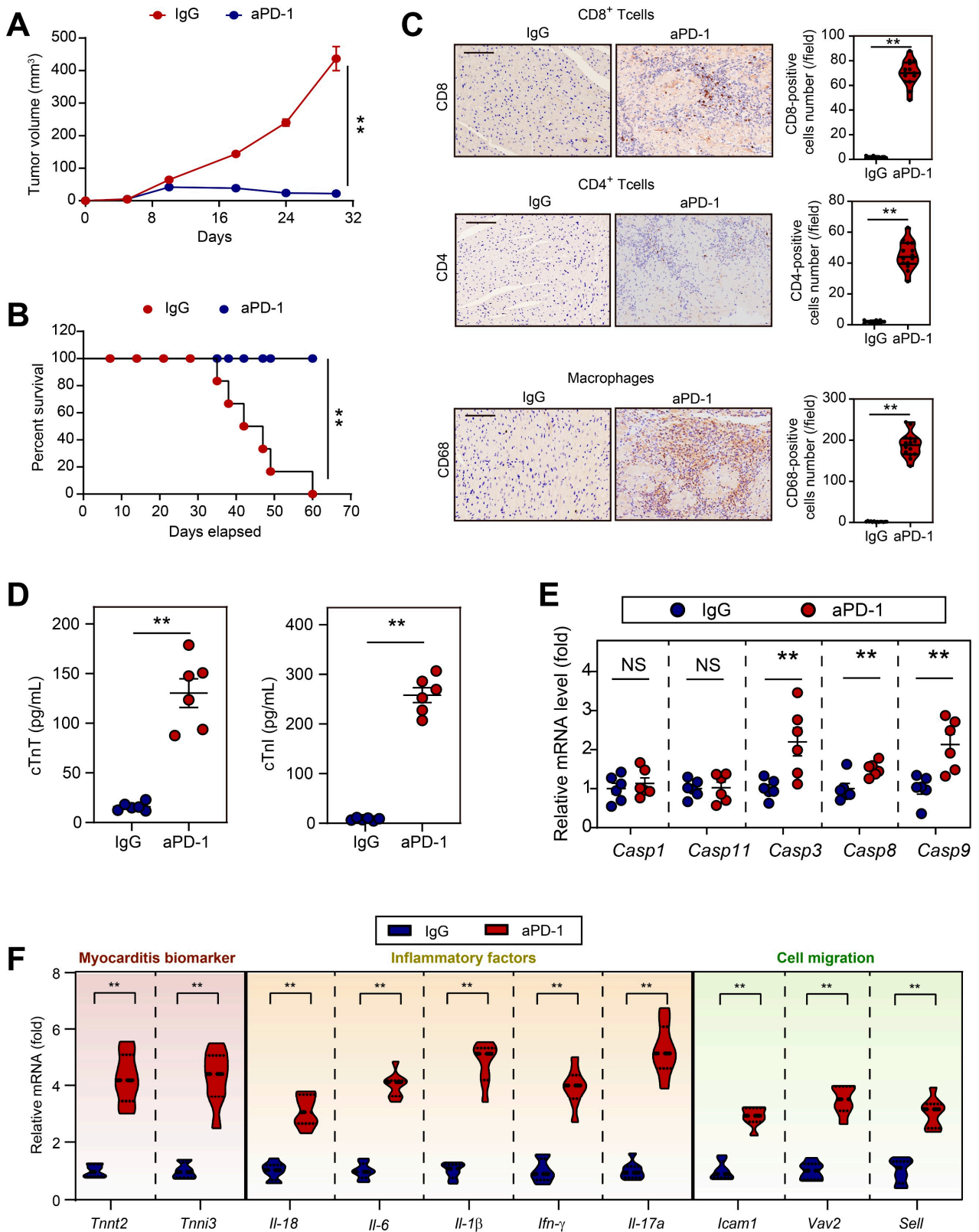


1 **Supplemental Figure 1**

2



3 **Overdose anti-PD-1 (aPD-1) therapy in mice inhibits tumor growth but causes myocardial**
 4 **immune cells infiltration and elevation of blood biomarkers.**

5 (A) Tumor size in tumor-bearing mice received overdose aPD-1 therapy or normal IgG. *n* = 6
 6 biologically independent experiments.
 7

8 (B) Survival of tumor-bearing mice received overdose aPD-1 therapy or normal IgG. $n = 6$ biologically
9 independent experiments.

10 (C) Immunohistochemistry staining of T-cell (CD8⁺ and CD4⁺) and macrophages/monocytes (CD68⁺)
11 in myocardium of mice received overdose aPD-1 therapy or normal IgG. $n = 14$ biologically
12 independent experiments.

13 (D) Serum levels of cTnT and cTnl in mice received overdose aPD-1 therapy or normal IgG. $n = 6$
14 biologically independent experiments.

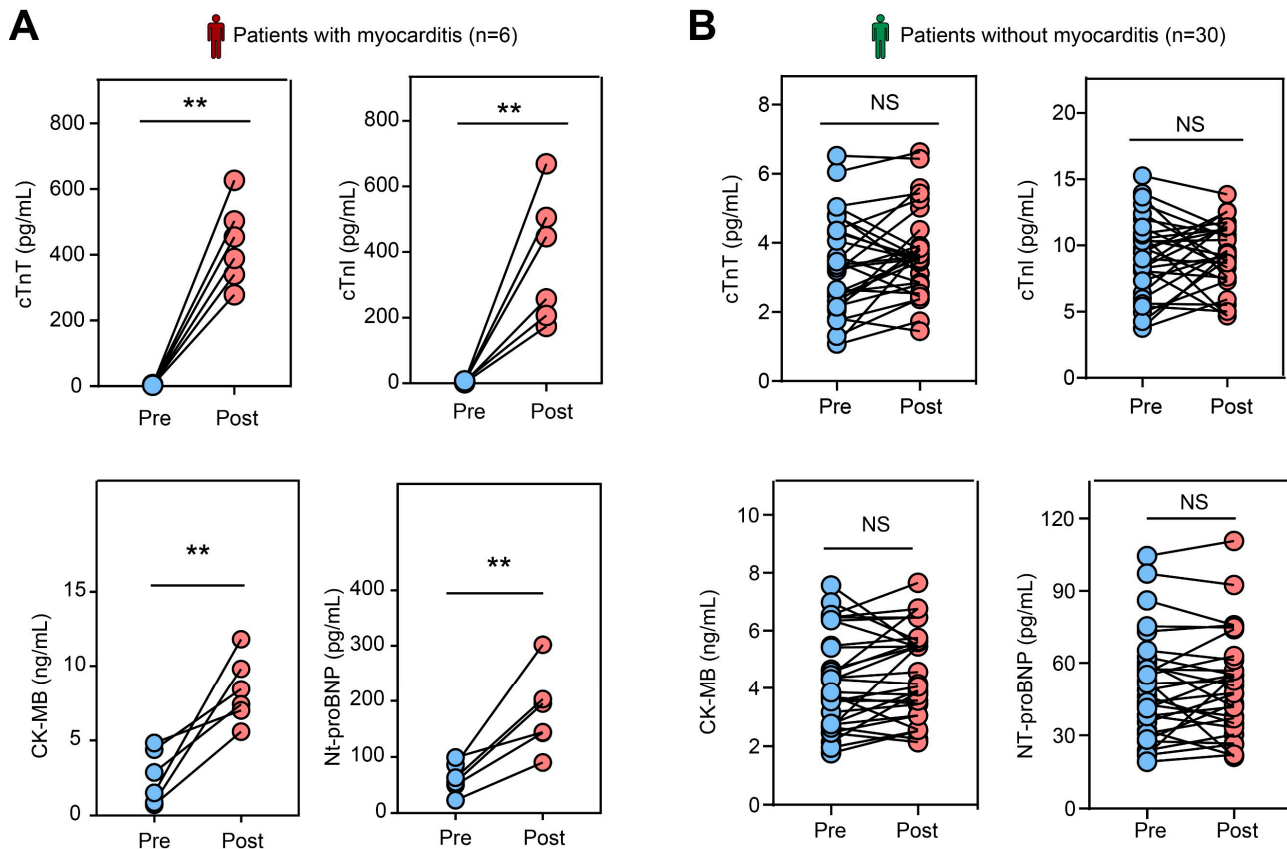
15 (E) Gene expression of *caspase-1*, *caspase-11*, *caspase-3*, *caspase-8* and *caspase-9* in heart of
16 mice received overdose aPD-1 therapy or normal IgG. $n = 6$ biologically independent experiments.

17 (F) Gene expression of *Tnni3*, *Tnnt2*, *Il-18*, *Il-6*, *Il-1b*, *lfn- γ* , *Il-17a*, *Icam1*, *Vav2* and *Sell* in heart of
18 mice received overdose aPD-1 therapy or normal IgG. $n = 8$ biologically independent experiments.

19 The data were presented as means \pm SEM and analyzed by Log-Rank test (survival, B) and two-
20 sided unpaired Student's t-test (other panels). ** $P < 0.01$. NS, no significance.

21 **Supplemental Figure 2**

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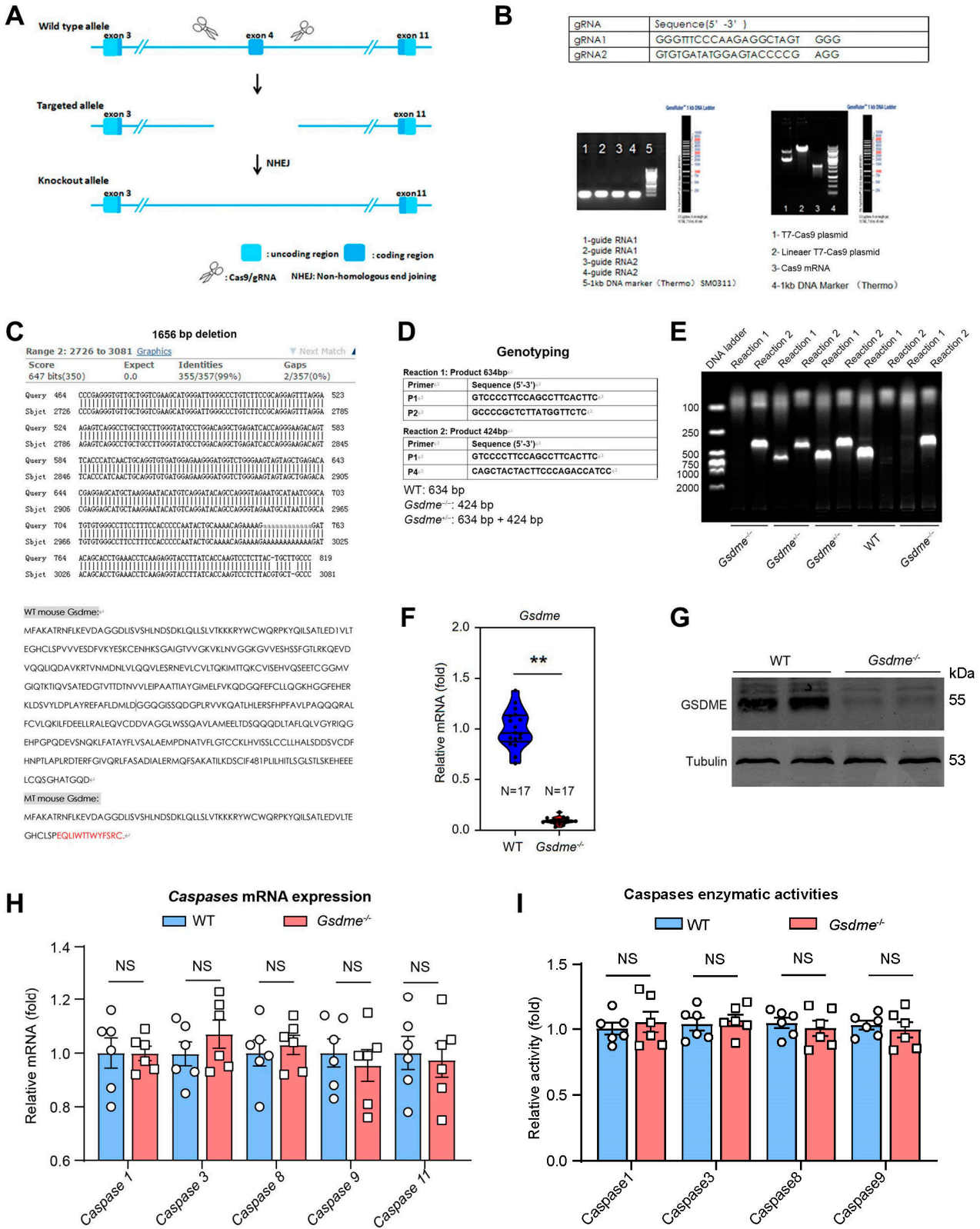
25 **Investigation of serum biomarkers for cardiac injury in patients with aPD-1 therapy-induced**
26 **myocarditis.**

27 **(A)** Serum biomarkers of cardiac damage (cTnT, cTnI, CK-MB and NT-proBNP) in 6 NSCLC patients
28 with myocarditis (IC-OS 2021 criteria).

29 **(B)** Serum biomarkers of cardiac damage (cTnT, cTnI, CK-MB and NT-proBNP) in 30 NSCLC
30 patients without myocarditis (IC-OS 2021 criteria).

31 The data were analyzed by two-sided paired Student's t-test. ** $P < 0.01$. NS, no significance.

32 **Supplemental Figure 3**



33 **Generation of a mouse strain with globally knockout of GSDME.**

34 (A) Schematic diagram showing the knockout strategy in mice by targeting exon 4 of GSDME using
35 CRISPR/CAS9 technology.

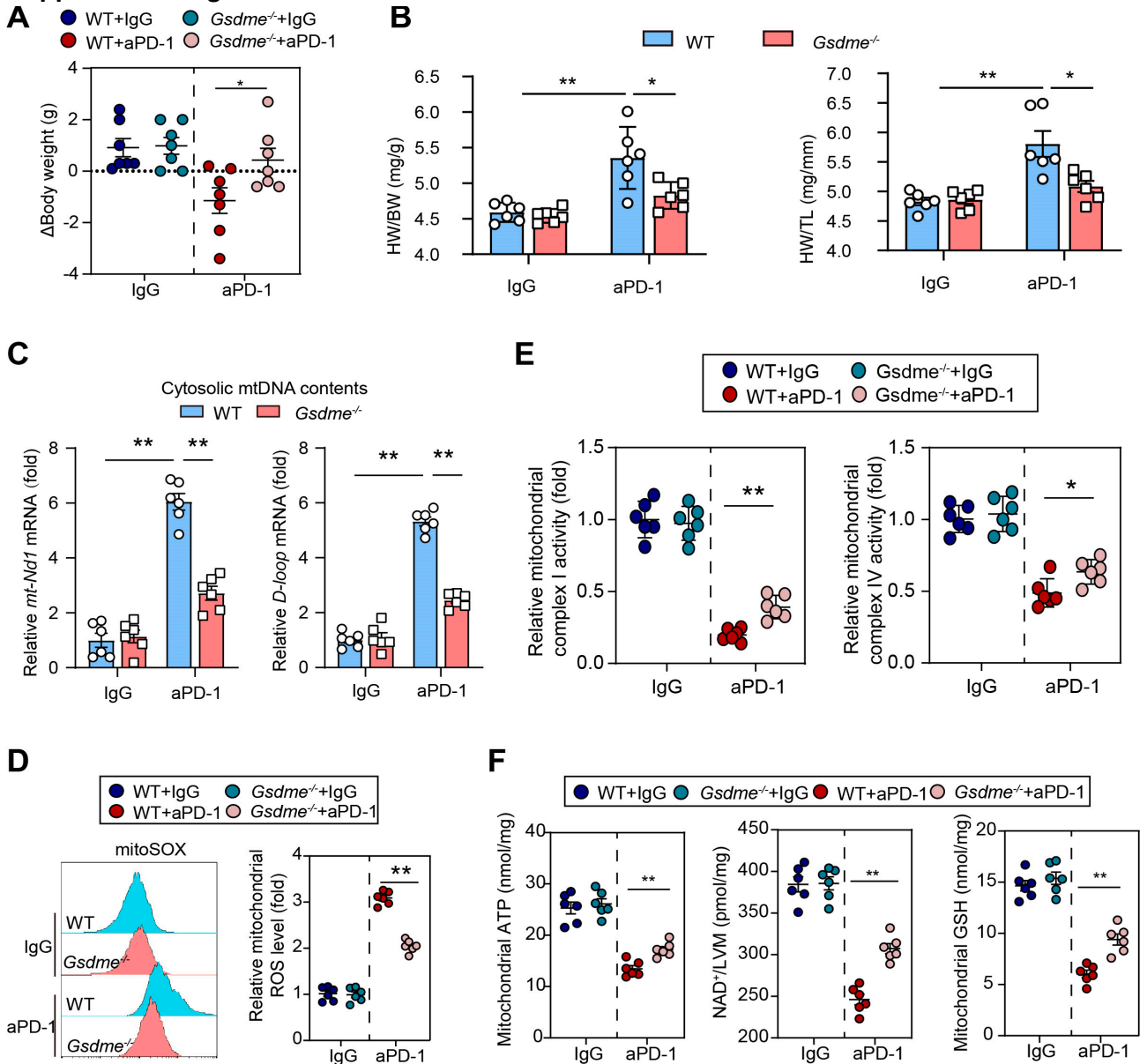
36 (B) Design and preparation of gRNAs.

37 (C) Sequencing confirmation of the deletion of 1656 bp in F0 animal.

38 (D) Genotyping primers of genotyping in F1 animals.

40 (E) The representative agarose images in genotyping.
41 (F) The mRNA level of GSDME in WT and *Gsdme*^{-/-} mice. The primers were designed to target the
42 gene sequence within the exon 4 of GSDME. *n* = 17 biologically independent experiments.
43 (G) Immunoblotting analysis confirmed the successful deletion of GSDME protein in *Gsdme*^{-/-} mice.
44 (H) The mRNA expression of *caspase 1*, *caspase 3*, *caspase 8*, *caspase 9* and *caspase 11* in hear
45 tissue of WT and *Gsdme*^{-/-} mice. *n* = 6 biologically independent experiments.
46 (I) The enzymatic activities of Caspase 1, Caspase 3, Caspase 8 and Caspase 9 in heart tissue of
47 WT and *Gsdme*^{-/-} mice. *n* = 6 biologically independent experiments.
48 The data were presented as means ± SEM and analyzed by two-sided unpaired Student's t-tests.
49 ***P*<0.01. NS, no significance.

Supplemental Figure 4



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Deletion of GSDME in mice attenuates aPD-1 therapy-induced myocardial damage and mitochondrial dysfunction.

55

(A) The body weight change induced by aPD-1 therapy in WT and *Gsdme*^{-/-} mice. Normal IgG was used as a control. *n* = 7 biologically independent experiments.

57

(B) Heart weight to body weight ratio (HW/BW) and heart weight to tibia length ratio (HW/TL). *n* = 6 biologically independent experiments.

59

(C) Cytosolic mtDNA (*mt-Nd1* and *D-loop*) contents in heart of WT and *Gsdme*^{-/-} mice received aPD-1 therapy or control IgG. *n* = 6 biologically independent experiments.

61

(D) Mitochondrial ROS levels were determined using flow cytometry with mitoSOX probe in single cells extracted from heart tissues of WT and *Gsdme*^{-/-} mice after treatment of aPD-1 or normal IgG. *n* = 6 biologically independent experiments.

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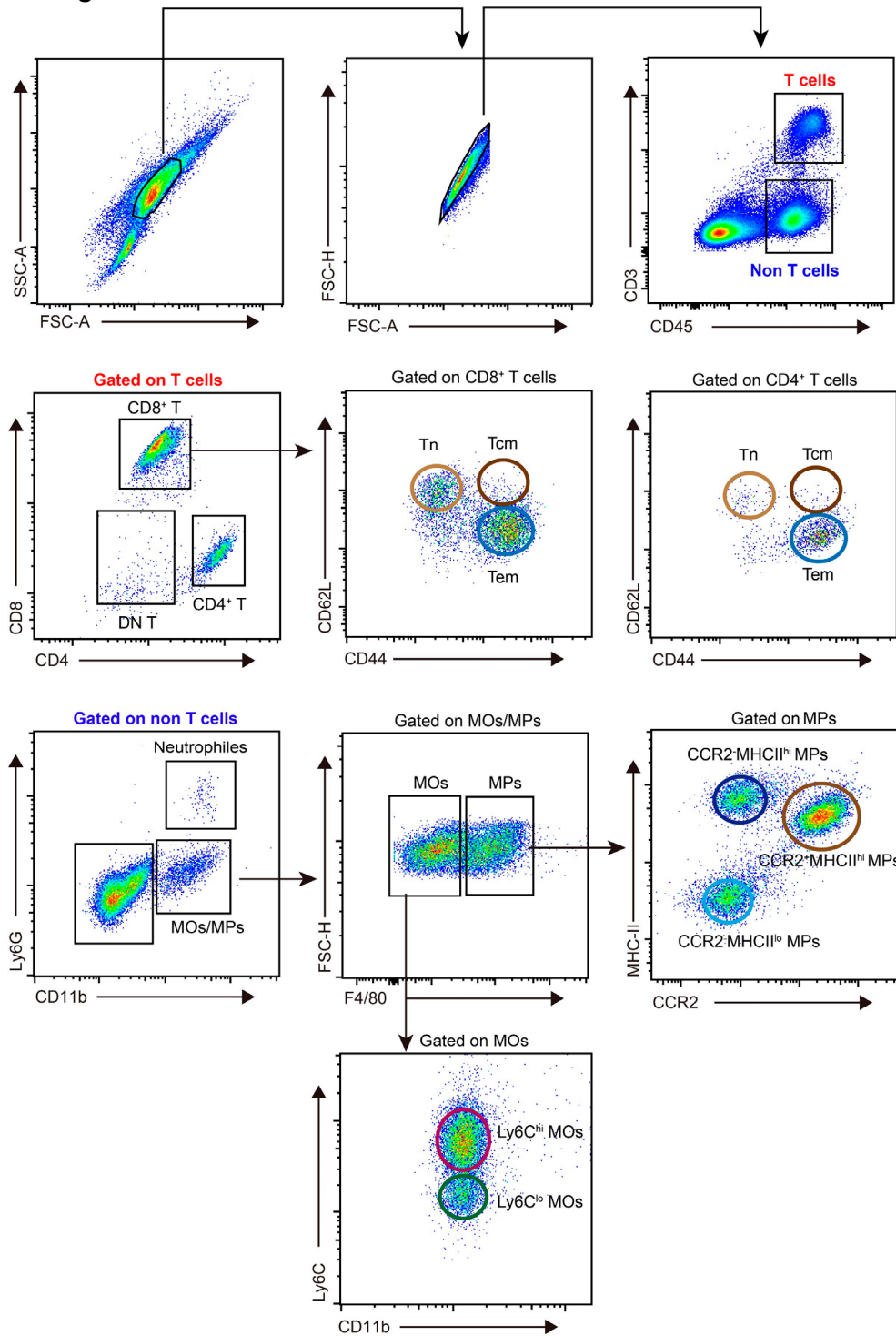
(E) Quantitative analysis of mitochondrial complex I and IV activities in heart of WT and *Gsdme*^{-/-} mice received aPD-1 therapy or control IgG. *n* = 6 biologically independent experiments. *n* = 6 biologically independent experiments.

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(F) Mitochondrial contents of ATP, NAD⁺ and GSH in mitochondrial fractions extracted from heart

68 tissues of WT and *Gsdme*^{-/-} mice after treatment of aPD-1 or normal IgG. *n* = 6 biologically
69 independent experiments.
70 The data were presented as means ± SEM and analyzed by two-sided unpaired Student's t-tests.
71 **P* < 0.05, ***P* < 0.01. NS, no significance.
72

73 **Supplemental Fig 5**

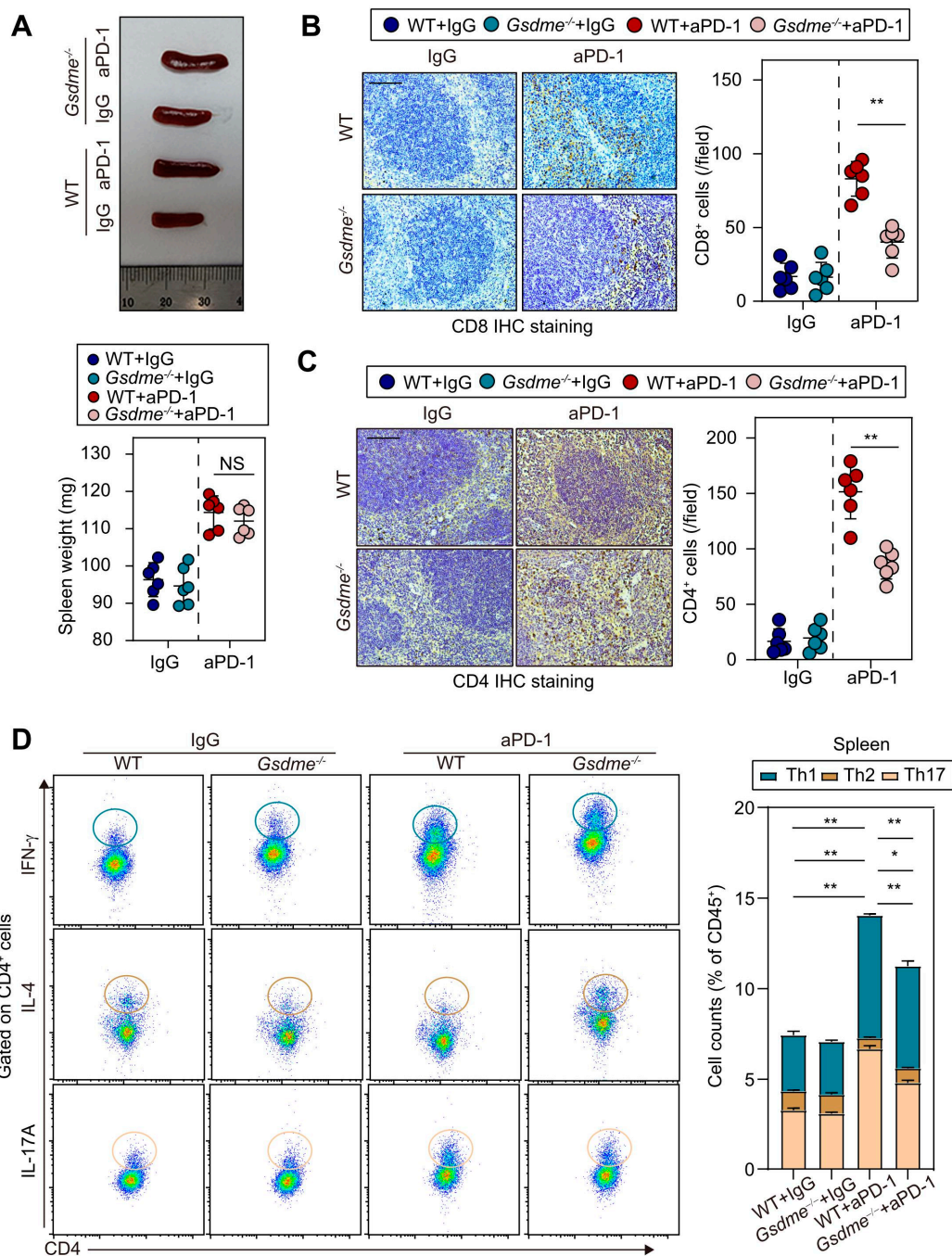


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76 **Gating strategy of flow cytometry.** The gating strategy of flow cytometry in cells isolated from
 77 hearts of mice received aPD-1 therapy was presented.

78



81

82 Deletion of GSDME in mice weakens aPD-1 therapy-induced T-cells activation in spleen

83 (A) Morphology and spleen weight of WT and *Gsdme*^{-/-} mice received aPD-1 therapy or normal IgG.

84 (B) Representative immunohistochemistry staining and quantitative analysis of CD8⁺ T-cells in
85 spleen of WT and *Gsdme*^{-/-} mice received aPD-1 therapy or control IgG.

86 (C) Representative immunohistochemistry staining and quantitative analysis of CD4⁺ T-cells in
87 spleen of WT and *Gsdme*^{-/-} mice received aPD-1 therapy or control IgG.

88 (D) Proportions of Th1 (IFN- γ ⁺), Th2 (IL-4⁺) and Th17 (IL-17A⁺) cells within CD4⁺ cells in spleens of
89 WT and *Gsdme*^{-/-} mice were determined using flow cytometry analysis.

90 The data were presented as means \pm SEM and analyzed by two-sided unpaired Student's t-tests.

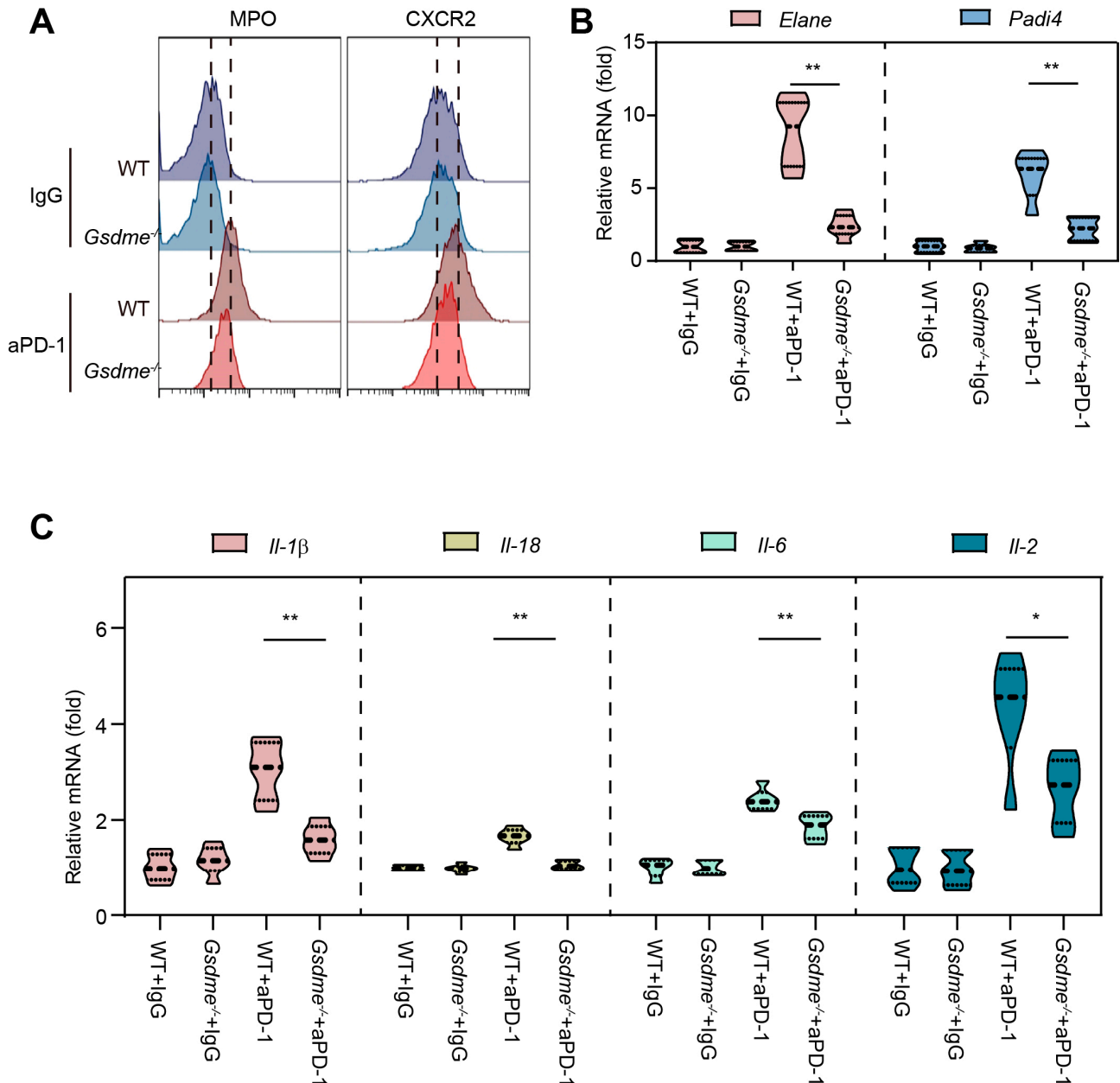
91 * P <0.05, ** P <0.01. NS, no significance. n = 6 biologically independent experiments.

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Supplemental Figure 7



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Deletion of GSDME alleviates aPD-1 therapy-induced myocardial inflammation

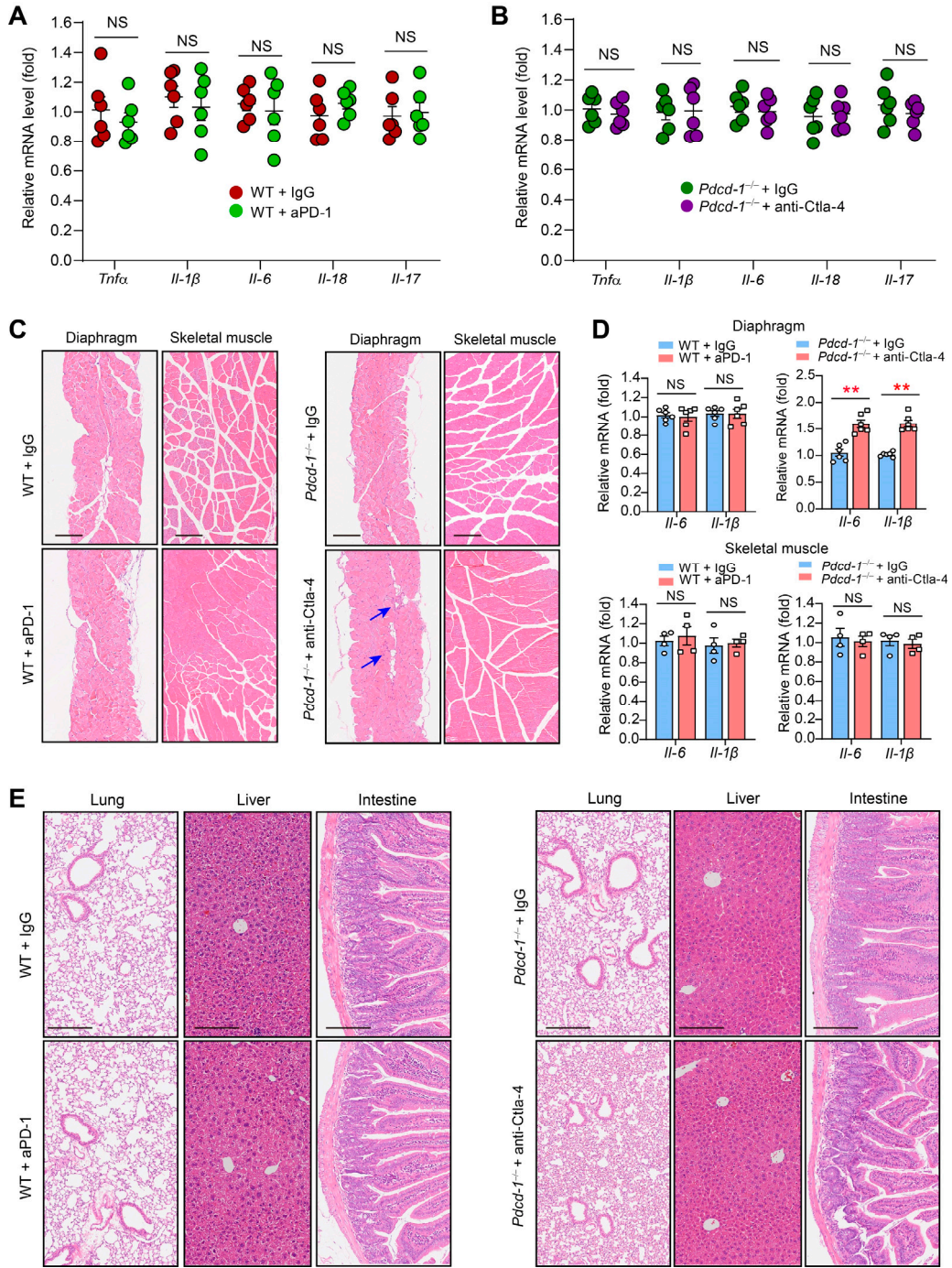
(A) Representative flow cytometry plots of MPO and CXCR2 in heart of WT and *Gsdme*^{-/-} mice received aPD-1 therapy or normal IgG. MPO, myeloperoxidase; CXCR2, C-X-C motif chemokine receptor 2.

(B) Quantitative PCR analyses of mRNA levels of *Elane* and *Padi4* in heart of WT and *Gsdme*^{-/-} mice received aPD-1 therapy or normal IgG. *Elane*, neutrophil elastase; *Padi4*, peptidyl arginine deiminase, type IV.

(C) Quantitative PCR analyses of mRNA levels of *IL-1β*, *IL-6*, *IL-18* and *IL-2* in heart of WT and *Gsdme*^{-/-} mice received aPD-1 therapy or normal IgG. *IL-1β*, interleukin-1β; *IL-6*, interleukin-6; *IL-18*, interleukin-18; *IL-2*, interleukin-2.

The data were presented as means ± SEM and analyzed by two-sided unpaired Student's t-tests. **P*<0.05, ***P*<0.01. *n* = 6 biologically independent experiments.

110 **Supplemental Fig 8**

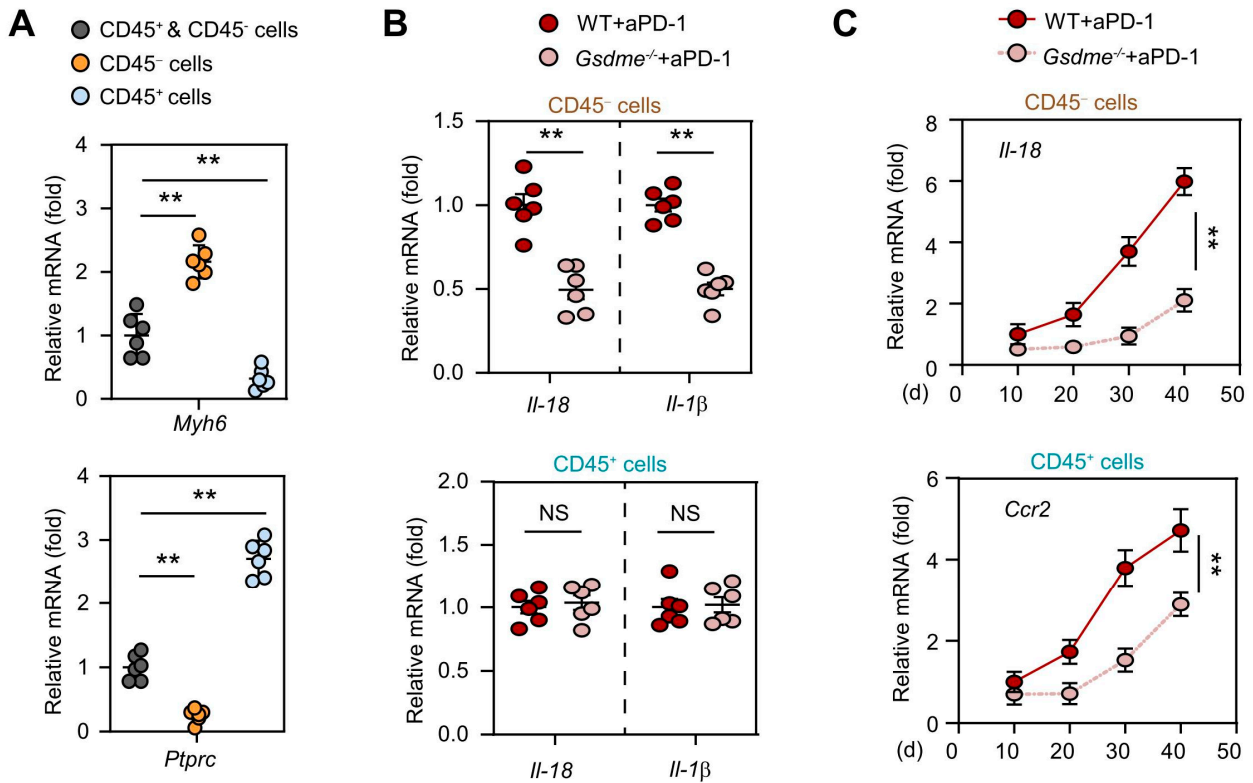


111
 112 **Absence of systemic immune activation in two animal models of ICI-induced myocarditis.**
 113 (A) The mRNA expression of *Tnfα*, *Il-1β*, *Il-6*, *Il-18* and *Il-17* in PBMCs isolated from WT mice
 114 receiving IgG or anti-PD1. *n* = 6 biologically independent experiments.
 115 (B) The mRNA expression of *Tnfα*, *Il-1β*, *Il-6*, *Il-18* and *Il-17* in PBMCs isolated from *Pdccl1*^{-/-} mice
 116 receiving IgG or anti-Ctla4. *n* = 6 biologically independent experiments.
 117 (C) Histological analysis showing the structure of diaphragm and skeletal muscle (quadriceps
 118 femoris muscle) of WT mice receiving IgG or anti-PD1, as well as *Pdccl1*^{-/-} mice receiving IgG or
 119 anti-Ctla4. Blue arrows indicate mild immune cell infiltration. *n* = 6 biologically independent
 120 experiments.
 121 (D) Quantitative analysis by qPCR on the *Il-6* and *Il-1β* in diaphragm (*n* = 6 biologically independent
 122 experiments.) and skeletal muscle (*n* = 4 biologically independent experiments.) of WT mice
 123 receiving IgG or anti-PD1, as well as *Pdccl1*^{-/-} mice receiving IgG or anti-Ctla4.

124 (E) Histological analysis showing the structure of lung, liver and intestine of WT mice receiving IgG
125 or anti-PD1, as well as *Pdcd1*^{-/-} mice receiving IgG or anti-Ctla4. *n* = 6 biologically independent
126 experiments.
127 The data were presented as means ± SEM and analyzed by two-sided unpaired Student's t-tests.
128 **P*<0.05, ***P*<0.01. NS, no significance.
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Supplemental Figure 9



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Characterization of pyroptosis-related molecules in CD45⁺ and CD45⁻ cells isolated from hearts of WT and *Gsdme*^{-/-} mice received aPD-1 therapy.

(A) Determination of signature genes *Myh6* (encoding cardiac α -myosin heavy chain) and *Ptprc* (encoding CD45) expression in CD45⁺ and CD45⁻ cells isolated from hearts of WT and *Gsdme*^{-/-} mice received aPD-1 therapy. CD45⁺ and CD45⁻ cells were isolated using sorting flow cytometry.

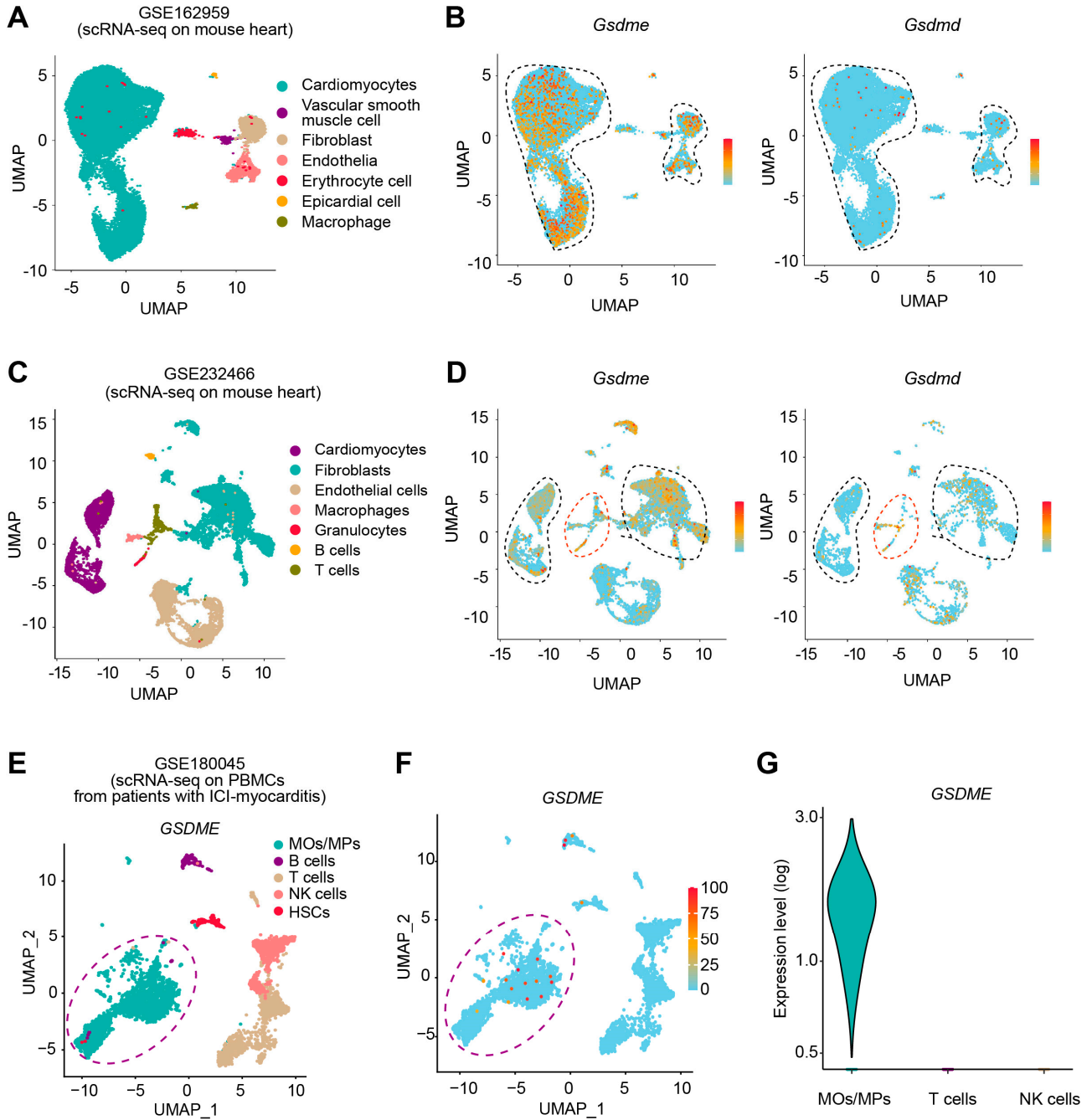
(B) Comparison of pyroptosis-related molecules *Il-18* and *Il-1β* expression in isolated CD45⁻ and CD45⁺ cells respectively between hearts of WT and *Gsdme*^{-/-} mice received aPD-1 therapy.

(C) Comparison of *Il-18* and *Ccr2* mRNA expression in isolated CD45⁻ and CD45⁺ cells respectively between hearts of WT and *Gsdme*^{-/-} mice received aPD-1 therapy.

The data were presented as means \pm SEM and analyzed by two-sided unpaired Student's t-tests. ** $P < 0.01$. NS, no significance. $n = 6$ biologically independent experiments.

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Supplemental Figure 10



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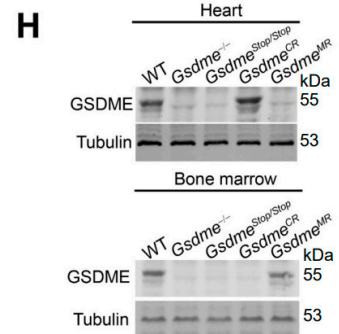
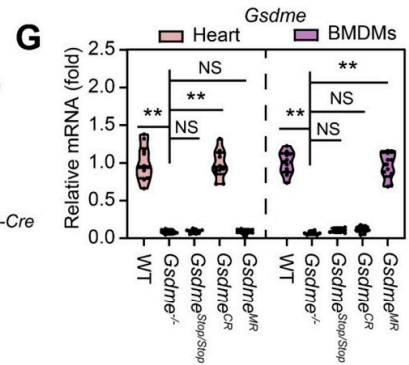
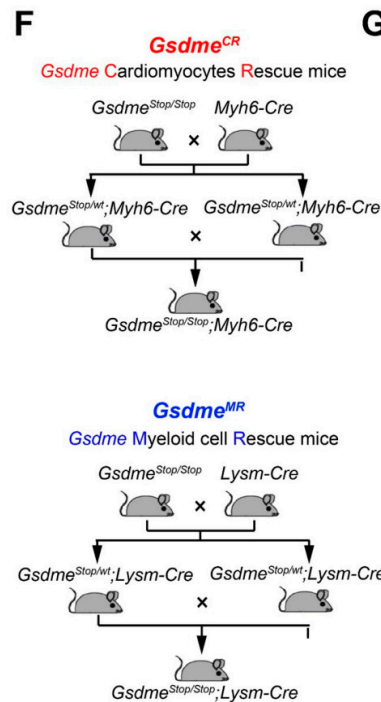
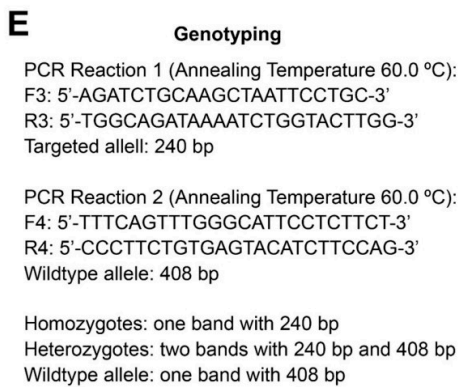
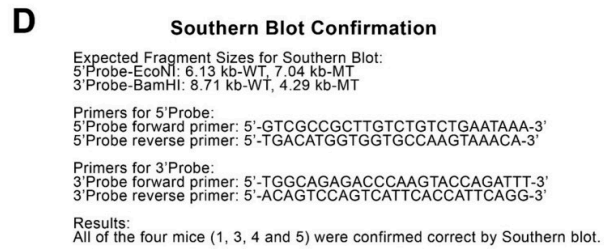
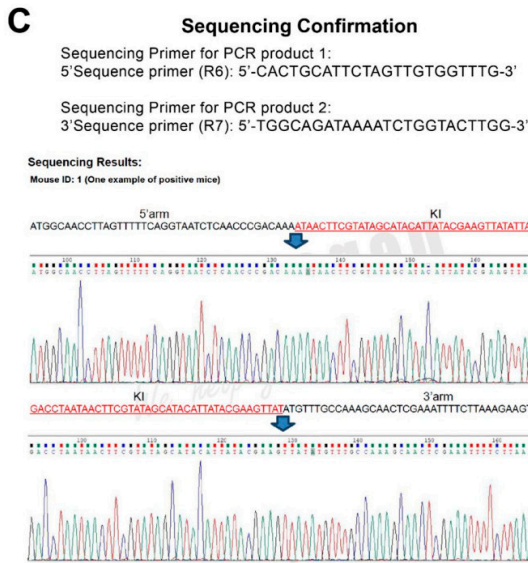
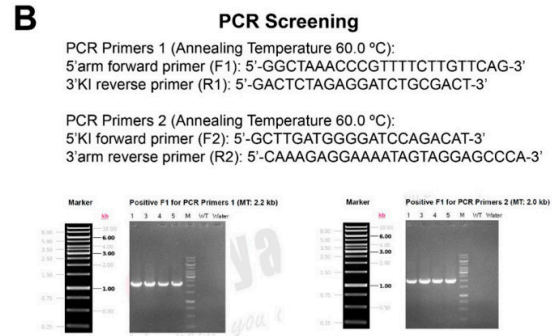
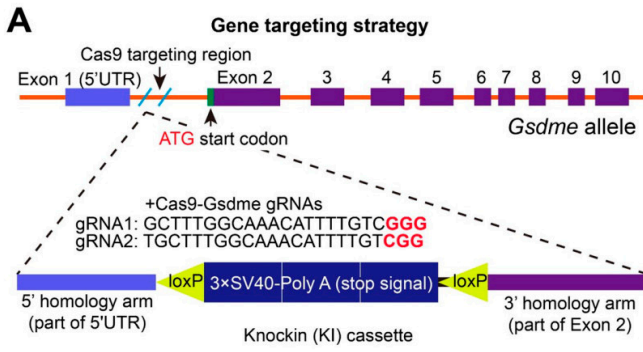
Public single-cell RNA sequencing (scRNA-seq) analysis of *Gsdme* transcription level in normal mouse heart and peripheral blood mononuclear cells (PBMCs) of patients with ICI-myocarditis.

152 (A) UMAP analysis of cells clusters in mouse heart from a public scRNA-seq dataset (GEO Access
153 Numbers: GSE162959).

154 (B) Transcription levels of *Gsdme* and *Gsdmd* in different clusters of cardiac cells. The colors in the
155 expression-level heatmaps (right panel) represent the median intensity values for *Gsdme* or *Gsdmd*
156 gene.

157 (C) UMAP analysis of cells clusters in mouse heart from a public scRNA-seq dataset (GEO Access
158 Numbers: GSE232466).

159 (D) Transcription levels of *Gsdme* and *Gsdmd* in different clusters of cardiac cells. The colors in the
160 expression-level heatmaps (right panel) represent the median intensity values for *Gsdme* or *Gsdmd*
161 gene.
162 (E) UMAP analysis of cells clusters in PBMCs of patients with ICI-myocarditis from a public scRNA-
163 seq dataset (GEO Access Numbers: GSE180045).
164 (F) Transcription levels of *Gsdme* in different clusters of immune cells within PBMCs. The colors in
165 the expression-level heatmaps (right panel) represent the median intensity values for *Gsdme* gene.
166 (G) Violin plot showing the transcription levels of *Gsdme* in MOs/MPs, T cells and NK cells.
167
168



172 **Generation of mouse strains with conditional rescue of GSDME in cardiomyocytes and**
173 **myeloid cells respectively**

174 (A) Schematic diagram showing the gene targeting strategy for generation a mouse strain carrying
175 a transcriptional *Stop* element flanked by *loxP* recombination sites (*loxP-Stop-loxP*, LSL) upstream
176 of the ATG start codon of *Gsdme* gene. The gRNA1 and gRNA2 to mouse *Gsdme* gene, the donor
177 vector containing "part of 5'UTR-*loxP*-3*SV40-Poly A -*loxP*-part of E2" cassette, and *Cas9* mRNA
178 were co-injected into fertilized mouse eggs to generate targeted conditional knockin offspring
179 (*Gsdme*^{Stop/Stop}). The sequences of gRNA1 and gRNA2 were also shown. The *Stop* element before
180 ATG start codon was expected to terminate the transcription of *Gsdme* gene.

181 (B) The PCR primers and array to identify the positive F1 *Gsdme*^{Stop/Stop} mice. Four positive F1
182 *Gsdme*^{Stop/Stop} mice were identified.

183 (C) One of the positive F1 mice was sequenced to confirm the knockin targeting.

184 (D) Southern blot analysis further confirmed the successful knockin targeting.

185 (E) Genotyping of *Gsdme*^{Stop/Stop} mice.

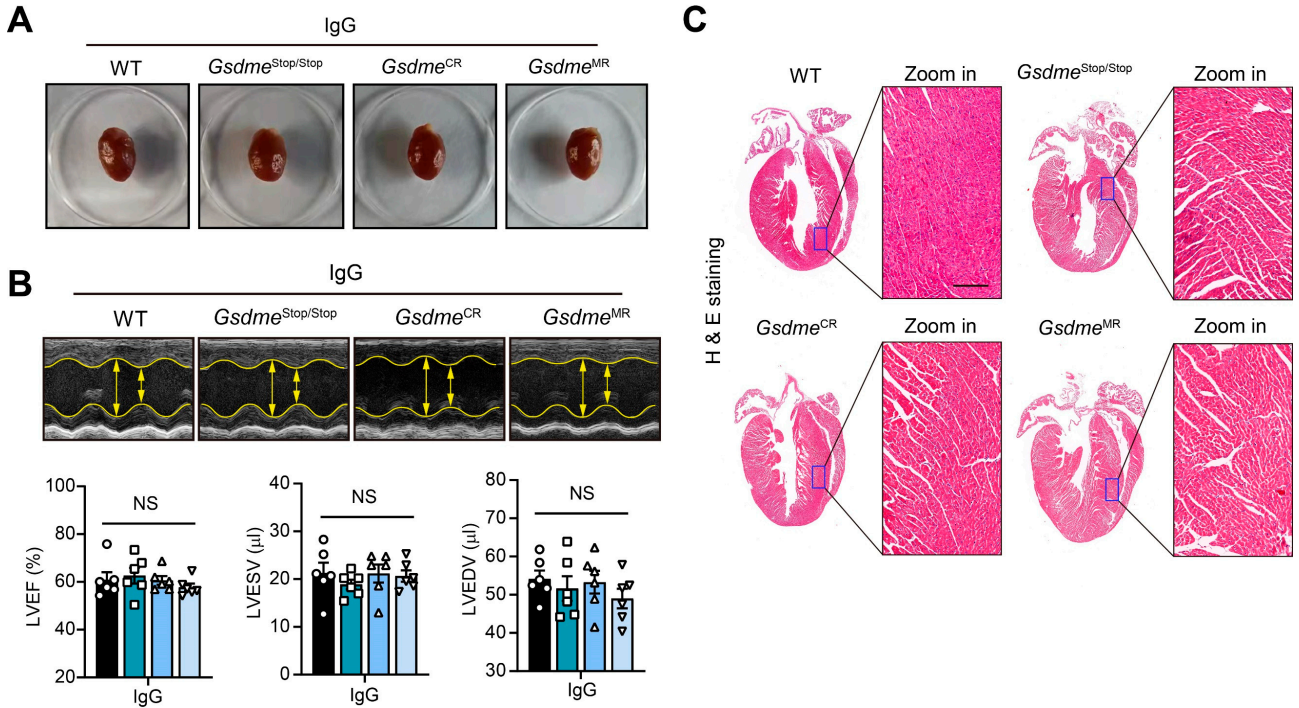
186 (F) The *Gsdme*^{Stop/Stop} mouse strain was crossed with *Myh6*-Cre or *Lysm*-Cre mouse to produce
187 *Gsdme*^{Stop/Stop};*Myh6*-Cre mouse (cardiomyocyte rescue of GSDME, referred as *Gsdme*^{CR}) or
188 *Gsdme*^{Stop/Stop};*Lysm*-Cre mouse (myeloid cell rescue of GSDME, referred as *Gsdme*^{MR}). The Cre
189 expression in cardiomyocyte or myeloid cell can delete the *Stop* element in specific tissue to allow
190 GSDME re-expression.

191 (G) Quantitative PCR analysis showing *Gsdme* mRNA level in heart tissue and bone-marrow derived
192 macrophages (BMDMs) from WT, *Gsdme*^{-/-}, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice. *n* = 10
193 biologically independent experiments. The data were presented as means ± SEM and analyzed by
194 two-sided unpaired Student's t-tests. ***P*<0.01. NS, no significance.

195 (H) Immunoblotting analysis of GSDME protein level in heart tissue and bone marrow from WT,
196 *Gsdme*^{-/-}, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice. GSDME protein was rescued in heart of
197 *Gsdme*^{CR} mice and bone marrow of *Gsdme*^{MR} mice. *n* = 6 biologically independent experiments.

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Supplemental Figure 12



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201 **Comparison of cardiac function of WT, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice under** 202 **normal condition**

203 (A) Morphology of hearts of WT, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice received control IgG.
204 *n* = 6 biologically independent experiments.

205 (B) Representative echocardiograms in WT, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice received
206 control IgG. *n* = 6 biologically independent experiments.

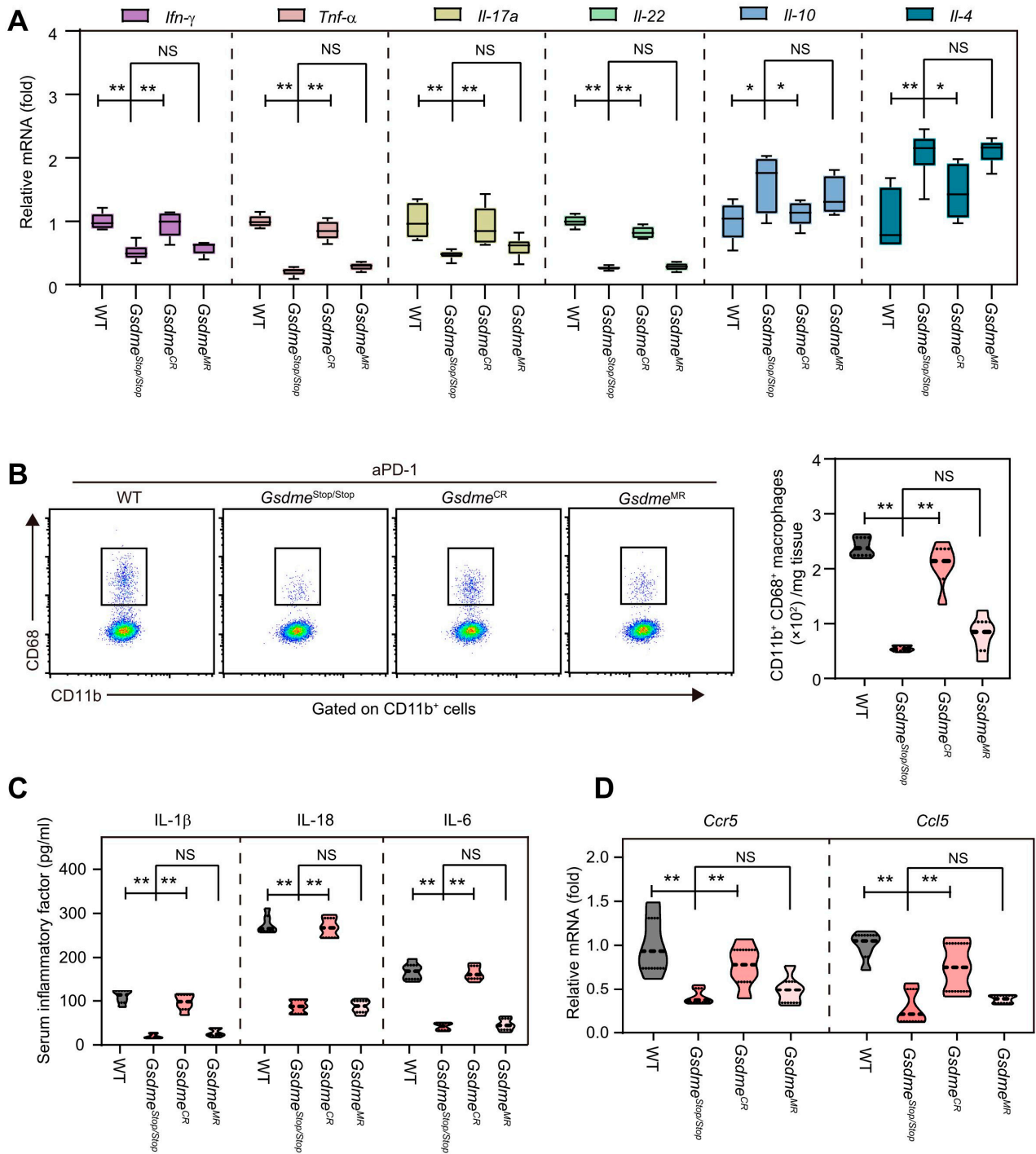
207 (C) HE staining of hearts of WT, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice received control IgG.
208 *n* = 6 biologically independent experiments.

209 The data were presented as means ± SEM and analyzed by two-sided unpaired Student's t-tests.
210 NS, no significance.

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Supplemental Figure 13



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Rescue of GSDME in cardiomyocyte alleviates aPD-1 therapy-associated inflammation.

217 (A) Comparison of mRNA levels of *Ifn- γ* , *Tnf- α* , *Il-17a*, *Il-22*, *Il-10* and *Il-4* in heart of WT, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice received aPD-1 therapy. *n* = 6 biologically independent experiments.

220 (B) Representative flow cytometry plots and quantitative analysis of CD11b⁺CD68⁺ monocytes/macrophages (MOs/MPs) in heart of WT, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice received aPD-1 therapy. *n* = 6 biologically independent experiments.

223 (C) ELISA analyses showing the protein levels of pro-inflammatory factors including IL-1 β , IL-18 and IL-6 in heart of WT, *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice received aPD-1 therapy. *n* = 6

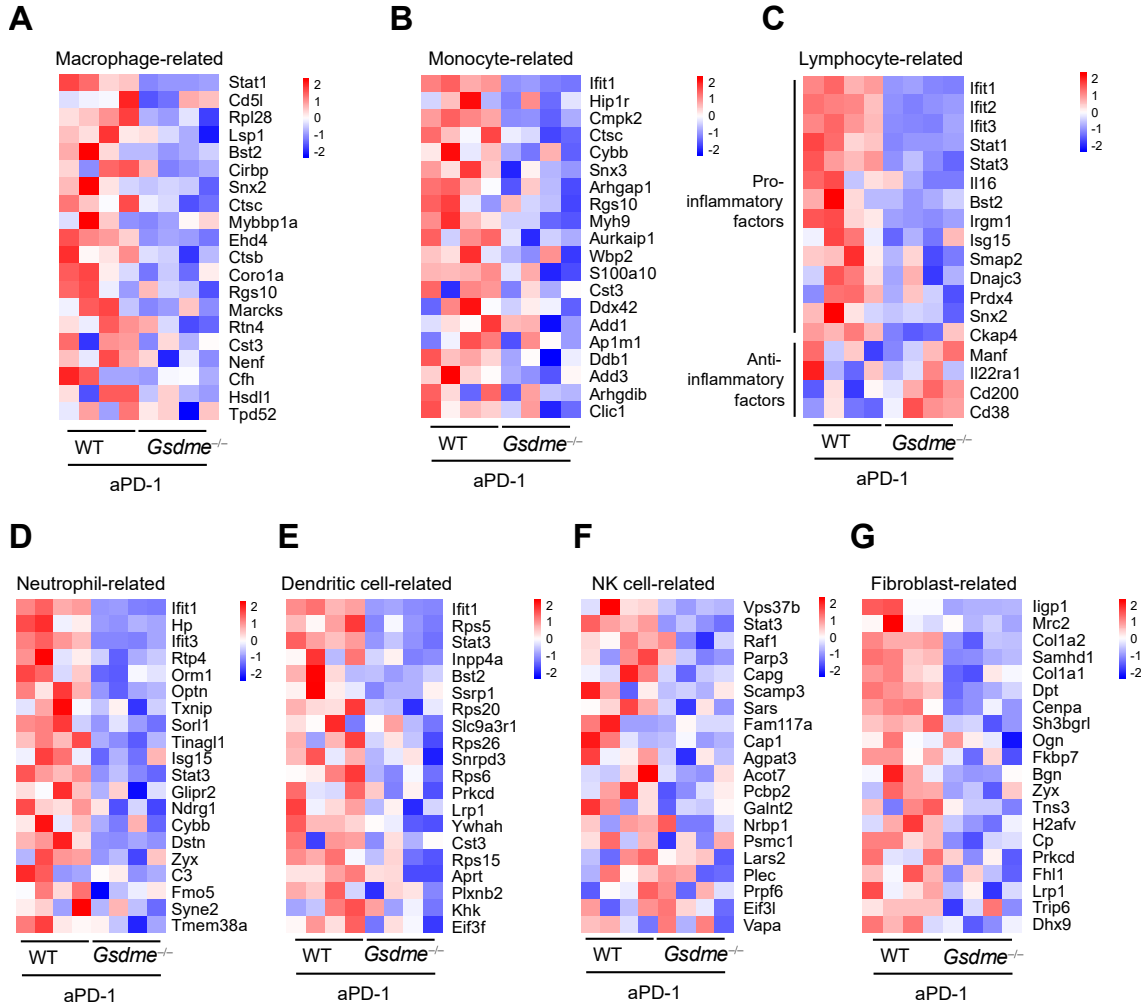
225 biologically independent experiments.

226 **(D)** Quantitative PCR analysis showing the mRNA levels of *Ccr5* and *Ccl5* in heart of WT,
227 *Gsdme*^{Stop/Stop}, *Gsdme*^{CR} and *Gsdme*^{MR} mice received aPD-1 therapy. *n* = 6 biologically independent
228 experiments.

229 The data were presented as means ± SEM and analyzed by two-sided unpaired Student's t-tests.

230 **P*<0.05, ***P*<0.01. NS, no significance.

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233

234 **Tandem Mass Tagging (TMT)-based multiplexed quantitative proteomics showing the**
 235 **changed protein signatures in immune cells and fibroblasts between WT and *Gsdme*^{-/-} mice**
 236 **upon aPD-1 therapy**

237 (A) Macrophage-related protein signature between heart of WT and *Gsdme*^{-/-} mice upon aPD-1
 238 therapy.

239 (B) Monocyte-related protein signature between heart of WT and *Gsdme*^{-/-} mice upon aPD-1
 240 therapy.

241 (C) Lymphocyte-related protein signature between heart of WT and *Gsdme*^{-/-} mice upon aPD-1
 242 therapy.

243 (D) Neutrophil-related protein signature between heart of WT and *Gsdme*^{-/-} mice upon aPD-1
 244 therapy.

245 (E) Dendritic cell-related protein signature between heart of WT and *Gsdme*^{-/-} mice upon aPD-1
 246 therapy.

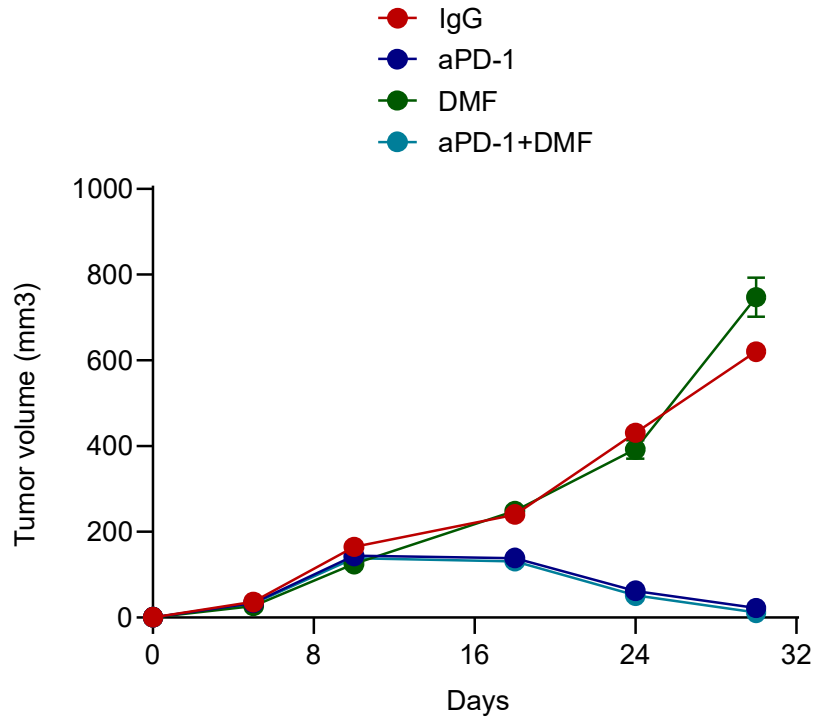
247 (F) NK cell-related protein signature between heart of WT and *Gsdme*^{-/-} mice upon aPD-1 therapy.

248 (G) Fibroblast-related protein signature between heart of WT and *Gsdme*^{-/-} mice upon aPD-1
 249 therapy.

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251 **Supplemental Figure 15**

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255 ***Effects of dimethyl fumarate (DMF) on tumor growth in the presence or absence of aPD-1***
256 ***therapy.*** The Tumor size in tumor-bearing mice received overdose aPD-1 therapy or normal IgG or
257 DMF or aPD-1+DMF. *n* = 6 biologically independent experiments.

Supplemental Table 1

Characteristics of 6 tumor patients with myocarditis after first-course therapy of aPD-1

Case No.	Gender	Tumor type	Age	cTnT baseline (pg/ml)	cTnT elevation (>200 pg/ml)	cTnI baseline (pg/ml)	cTnI elevation (>200 pg/ml)	Major Criterion	Minor Criterion				IC-OS 2021 criteria
								Diagnostic CMR	Suggestive CMR	Clinical syndrome	Decline in cardiac function	Ventricular arrhythmia	
1	M	NSCLC	64	<10	+	<10	+	+	/	+	+	+	Y
2	F	NSCLC	68	<10	+	<10	+	+	/	+	+	+	Y
3	M	Gastric cancer	56	<10	+	<10	+	-	-	+	+	-	Y
4	M	Gastric cancer	59	<10	+	<10	+	-	+	+	-	+	Y
5	F	Melanoma	47	<10	+	<10	+	-	-	+	+	-	Y
6	M	Esophageal cancer	56	<10	+	<10	+	-	-	+	-	+	Y

IC-OS 2021 criteria: troponin elevation + 1 major criterion or troponin elevation + with 2 minor criteria after exclusion of acute coronary syndrome or acute infectious myocarditis based on clinical suspicion. NSCLC, non-small cell lung cancer.

Supplemental Table 2.

Differentially expressed proteins between WT mice (n = 4) and *Gsdme*^{-/-} mice upon aPD-1 therapy in isobaric Tandem Mass Tag multiplexed quantitative proteomics

Protein accession	Protein name	MW [kDa]	Coverage [%]	Peptides	PSMs	Unique peptides	WT +aPD-1	WT +aPD-1	WT +aPD-1	WT +aPD-1	<i>Gsdme</i> ^{-/-} +aPD-1	<i>Gsdme</i> ^{-/-} +aPD-1	<i>Gsdme</i> ^{-/-} +aPD-1	<i>Gsdme</i> ^{-/-} +aPD-1	<i>Gsdme</i> ^{-/-} +aPD-1 to WT+aPD-1 ratio	P value
Q61941	Nnt	113.84	34.8	37	117	37	1.677	1.645	1.637	1.617	0.253	0.272	0.221	0.247	0.151	1.726E-10
Q80TD3	Fnip2	122.52	0.7	1	1	1	2.247	2.299	0.880	1.043	0.286	0.288	0.369	0.370	0.203	1.479E-02
Q64282	Ifit1	53.74	19.7	7	10	7	1.554	1.701	1.368	1.451	0.488	0.529	0.401	0.371	0.295	1.126E-05
Q60766	Irgm1	46.55	21.0	9	13	9	1.649	1.681	1.166	1.085	0.625	0.589	0.536	0.614	0.424	2.243E-03
Q9QZ85	Iigp1	47.57	34.4	11	13	11	1.724	1.776	0.965	0.984	0.567	0.623	0.619	0.638	0.449	1.561E-02
Q64112	Ifit2	55.02	3.0	1	1	1	1.460	1.405	1.393	1.201	0.627	0.574	0.636	0.663	0.458	1.653E-05
Q9R233	Tapbp	49.74	7.1	3	3	3	1.566	1.590	1.150	1.131	0.572	0.568	0.692	0.663	0.459	1.327E-03
Q61646	Hp	38.75	34.6	12	16	12	1.618	1.721	0.951	1.047	0.630	0.596	0.701	0.666	0.486	1.310E-02
P42225	Stat1	87.20	20.7	13	20	13	1.517	1.410	1.105	1.158	0.627	0.671	0.670	0.696	0.513	7.332E-04
Q8BGV8	Mief1	51.18	5.8	2	2	2	1.296	1.321	1.369	1.243	0.621	0.617	0.781	0.751	0.530	1.820E-05
Q64345	Ifit3	47.22	7.2	3	3	3	1.282	1.351	1.236	1.154	0.722	0.720	0.707	0.792	0.586	2.705E-05
P01887	B2m	13.78	8.4	1	3	1	1.368	1.371	1.082	1.098	0.717	0.751	0.815	0.755	0.618	1.323E-03
Q9ER80	Rtp4	28.39	3.6	1	1	1	1.263	1.581	0.921	1.030	0.871	0.616	0.791	0.861	0.655	3.912E-02
Q07797	Lgals3bp	64.49	9.9	4	5	4	1.261	1.216	1.079	1.211	0.757	0.817	0.741	0.830	0.660	1.037E-04
P01901	H2-K1	41.30	26.0	8	11	5	1.382	1.367	0.987	1.038	0.744	0.770	0.852	0.824	0.668	1.046E-02
P97371	Psme1	28.67	57.4	13	25	13	1.338	1.250	1.043	1.121	0.807	0.797	0.804	0.804	0.676	1.098E-03
Q03734	Serpina3	47.06	16.0	6	14	2	1.220	1.185	1.163	1.214	0.726	0.683	0.903	0.929	0.678	8.960E-04
O35955	Psmb10	29.06	10.6	3	3	3	1.275	1.496	0.968	1.032	0.794	0.731	0.850	0.883	0.683	2.344E-02

P01899	H2-D1	40.84	20.4	7	12	3	1.220	1.195	1.153	1.156	0.805	0.783	0.832	0.843	0.691	2.353E-06
Q9QZU9	Ube2l6	17.84	9.8	1	1	1	1.215	1.209	1.047	1.172	0.864	0.997	0.746	0.663	0.704	5.945E-03
P36371	Tap2	77.44	8.0	5	5	5	1.323	1.267	1.081	1.072	0.733	0.782	0.858	0.972	0.705	5.490E-03
Q8CAS9	Parp9	96.66	2.4	2	3	2	1.187	1.248	0.965	1.238	0.821	0.803	0.757	0.939	0.716	5.116E-03
Q99L88	Sntb1	58.08	4.1	2	2	2	0.998	1.122	1.264	1.238	0.827	0.839	0.845	0.869	0.731	2.344E-03
Q01149	Col1a2	129.56	10.1	12	15	12	1.189	1.129	1.132	1.155	0.835	0.757	0.914	0.903	0.740	2.502E-04
P21958	Tap1	78.86	1.9	2	2	2	1.380	1.273	0.914	0.992	0.831	0.833	0.937	0.806	0.747	4.611E-02
Q8BZ20	Parp12	79.92	2.0	1	1	1	1.139	1.150	1.255	1.022	0.853	0.926	0.671	0.971	0.749	1.260E-02
Q80SU7	Gvin1	280.81	5.9	14	14	14	1.168	1.235	1.137	1.117	0.768	0.813	0.964	0.947	0.750	1.848E-03
P28063	Psmb8	30.26	8.0	2	2	2	1.244	1.277	0.958	1.062	0.842	0.820	0.876	0.893	0.756	1.159E-02
Q8VCK3	Tubg2	51.12	4.4	2	2	2	1.018	1.128	1.177	1.199	0.934	0.951	0.765	0.784	0.759	5.105E-03
P97372	Psme2	27.06	28.9	6	9	6	1.168	1.201	1.047	1.090	0.824	0.824	0.886	0.933	0.769	1.063E-03
Q60710	Samhd1	75.89	13.8	8	11	8	1.189	1.167	1.070	1.094	0.843	0.848	0.887	0.908	0.771	2.105E-04
P63078	Gng8	7.84	17.1	1	1	1	1.144	1.202	1.081	1.098	0.867	0.698	0.970	0.963	0.773	9.775E-03
Q9CYZ8	Ssbp2	37.85	3.6	1	1	1	1.135	0.997	1.076	1.273	0.858	0.946	0.799	0.897	0.781	9.907E-03
Q60590	Orm1	23.90	7.7	2	2	2	1.257	1.211	0.947	1.075	0.791	0.774	0.992	0.965	0.784	3.657E-02
Q9ER38	Tor3a	43.81	3.1	1	1	1	1.075	1.110	1.196	1.110	0.877	0.828	0.981	0.840	0.785	1.414E-03
Q9Z0E6	Gbp2	66.74	15.4	7	8	7	1.210	1.161	1.012	1.048	0.821	0.818	0.855	1.000	0.789	1.014E-02
O70228	Atp9a	118.61	1.1	1	1	1	1.084	1.121	1.123	1.150	0.864	0.827	0.983	0.858	0.789	6.791E-04
Q99388	Csprs	24.06	4.8	1	1	1	1.109	1.073	1.150	1.138	0.921	0.843	0.781	0.986	0.790	2.721E-03
Q61555	Fbn2	313.82	1.3	4	5	1	1.236	1.061	1.113	1.094	0.769	0.731	1.108	0.952	0.790	4.791E-02
Q3UYH7	Adrbk2	79.66	1.7	1	1	1	1.047	1.167	1.173	1.067	0.890	0.903	0.894	0.849	0.794	6.033E-04
P17918	Pcna	28.79	17.2	3	3	3	1.026	1.306	1.011	1.082	0.878	0.894	0.823	0.942	0.799	2.227E-02
Q8BVK9	Sp110	50.14	2.0	1	1	1	1.226	0.874	1.254	1.102	0.918	0.875	0.909	0.876	0.803	4.557E-02
Q3U5Q7	Cmpk2	50.04	27.1	9	14	9	1.072	1.123	1.092	1.061	0.876	0.879	0.839	0.904	0.805	3.137E-05

P83882	Rpl36a	12.44	17.0	2	2	2	1.050	1.134	1.210	1.031	0.824	1.034	0.737	0.966	0.805	3.379E-02
Q61581	Igfbp7	28.97	8.5	2	2	2	1.175	0.936	1.144	1.158	0.996	0.975	0.838	0.751	0.807	3.851E-02
Q61704	Itih3	99.36	2.1	2	2	2	1.255	1.078	1.049	1.045	0.900	0.864	0.894	0.914	0.807	5.773E-03
Q9CPQ8	Atp5mg	11.42	19.4	2	10	2	1.061	1.007	1.211	1.212	0.891	0.883	0.929	0.929	0.809	7.200E-03
Q61233	Lcp1	70.15	27.3	14	18	12	1.130	1.159	1.054	1.056	0.906	0.879	0.886	0.894	0.810	2.543E-04
Q8K3K8	Optn	67.02	3.4	2	6	2	1.128	1.030	1.194	1.079	0.901	0.850	0.915	0.928	0.811	1.712E-03
Q9CY57	Chtop	26.59	5.2	1	2	1	1.044	1.113	1.186	1.080	0.840	0.894	0.918	0.943	0.813	1.464E-03
Q62351	Tfrc	85.73	15.9	12	18	12	1.127	1.085	1.117	1.090	0.910	0.903	0.875	0.913	0.815	5.003E-06
P11087	Col1a1	138.03	9.2	12	18	12	1.133	1.162	1.062	1.034	0.798	0.768	1.030	0.984	0.815	3.069E-02
Q8CD91	Smoc2	49.89	2.5	1	1	1	1.064	0.973	1.218	1.163	0.867	0.908	0.858	0.974	0.816	1.517E-02
Q9QZZ6	Dpt	24.00	23.9	5	6	5	1.139	1.111	1.087	1.061	0.853	0.887	0.914	0.958	0.821	3.969E-04
P32921	Wars	54.36	21.4	8	13	8	1.123	1.137	1.066	1.097	0.851	0.834	1.009	0.945	0.823	4.300E-03
Q9EQH2	Erap1	106.60	13.8	13	17	13	1.081	1.105	1.049	1.091	0.917	0.918	0.850	0.884	0.825	8.060E-05
O88307	Sort1	247.08	1.0	2	2	2	1.113	1.122	1.190	0.951	0.893	0.970	0.898	0.861	0.828	1.473E-02
P55821	Stmn2	20.83	10.6	2	2	1	1.089	1.181	1.064	1.027	1.029	0.829	0.864	0.894	0.829	1.438E-02
Q9D6N5	Drap1	22.28	3.9	1	1	1	1.011	0.875	0.834	0.902	1.100	1.160	1.057	1.077	1.213	4.599E-03
Q02013	Aqp1	28.79	14.5	3	7	3	0.915	0.882	0.911	0.902	1.120	1.126	1.089	1.047	1.214	6.185E-05
Q8CBE3	Wdr37	55.05	10.9	5	6	5	1.030	0.913	0.787	0.868	1.123	0.990	1.199	1.058	1.215	2.898E-02
B1AUE5	Pex10	37.16	6.8	2	2	2	0.882	0.853	0.934	0.965	1.178	0.986	1.108	1.146	1.216	7.114E-03
O88456	Capns1	28.46	8.9	3	3	3	0.882	0.956	0.914	0.872	1.068	1.104	1.178	1.067	1.219	8.411E-04
Q99M07	Coa5	8.36	20.3	1	1	1	0.984	0.727	0.888	1.010	1.205	1.157	0.997	1.044	1.220	4.817E-02
Q8C0Z1	Fam234a	60.58	3.4	2	2	2	0.907	0.904	0.890	0.914	1.228	1.011	1.126	1.049	1.221	6.030E-03
P50543	S100a11	11.08	20.4	2	3	2	0.923	0.942	0.843	0.888	1.177	1.187	0.984	1.043	1.221	1.089E-02
P09528	Fth1	21.07	45.6	6	18	6	0.977	0.858	0.873	0.902	1.079	1.024	1.149	1.165	1.224	2.991E-03
Q9CQF4	Mtres1	27.85	12.1	3	5	3	0.873	0.926	0.915	0.923	1.025	1.172	1.100	1.165	1.227	1.298E-03

P15864	H1-2	21.27	33.0	8	14	2	0.852	0.811	0.972	0.956	1.205	1.206	0.973	1.028	1.229	2.903E-02
Q9EPX2	PapIn	138.90	6.8	8	8	8	0.904	0.925	0.912	0.834	1.230	1.152	1.060	0.963	1.232	1.467E-02
Q91WJ7	Spats2l	61.67	1.8	1	1	1	0.910	0.901	0.928	0.855	1.078	1.149	1.132	1.086	1.237	9.641E-05
Q80ZM8	Crls1	32.50	6.6	1	1	1	0.843	0.950	0.942	0.878	0.930	1.063	1.307	1.180	1.240	4.278E-02
P02798	Mt2	6.12	32.8	2	3	1	0.808	0.865	1.007	0.922	1.039	1.051	1.170	1.222	1.244	1.194E-02
O08759	Ube3a	99.82	11.4	9	11	9	0.859	0.865	0.873	0.982	1.198	1.093	0.980	1.183	1.244	9.320E-03
Q9D0R4	Ddx56	61.21	3.5	2	2	2	0.903	0.886	0.859	0.920	1.063	1.172	1.009	1.219	1.251	4.226E-03
D3Z1D3	CEFIP	154.48	1.7	3	3	3	0.850	0.997	0.968	0.748	1.104	1.188	1.066	1.105	1.253	1.156E-02
P53351	Plk2	77.81	1.6	1	1	1	0.878	0.960	0.926	0.804	1.111	1.069	1.180	1.124	1.257	1.372E-03
Q9Z319	Corin	123.00	1.3	2	2	2	0.822	0.810	1.047	0.875	1.064	1.239	1.131	1.063	1.265	1.387E-02
Q8K212	Pacs1	104.83	8.7	6	8	6	0.845	0.838	0.888	0.917	1.253	1.007	1.066	1.099	1.269	5.649E-03
Q923Z3	Mto1	74.33	7.3	4	4	4	0.849	0.926	0.785	0.968	1.201	1.090	1.296	0.898	1.271	4.485E-02
P50172	Hsd11b1	32.36	8.2	3	3	3	0.912	0.986	0.838	0.799	0.976	1.172	1.216	1.153	1.278	1.055E-02
Q923D3	Parm1	30.67	3.0	1	1	1	0.958	0.899	0.831	0.815	1.228	1.205	1.143	0.915	1.282	2.015E-02
Q8BI72	Cdkn2aip	59.74	4.1	2	2	2	1.131	0.814	0.847	0.743	1.110	1.026	1.172	1.238	1.286	3.956E-02
Q9QZ49	Ubxn8	31.56	2.9	1	2	1	0.978	0.988	0.793	0.723	1.160	1.325	1.022	0.981	1.289	4.927E-02
Q61235	Sntb2	56.38	5.8	3	3	3	0.774	0.877	0.985	0.886	1.110	1.095	1.157	1.184	1.291	1.733E-03
Q8CBC4	Cnst	76.87	3.0	2	2	2	0.907	0.847	0.927	0.809	1.178	1.175	1.096	1.095	1.302	3.238E-04
Q61585	G0s2	11.12	7.8	1	2	1	0.867	0.891	0.820	0.916	1.079	1.144	1.148	1.180	1.303	1.068E-04
Q3V3A7	Rnf207	70.76	4.9	3	3	3	0.826	0.927	0.945	0.792	1.057	1.208	1.205	1.089	1.306	2.620E-03
Q8JZL7	Rasgef1b	55.27	2.1	1	1	1	0.910	0.974	0.833	0.773	1.122	1.014	1.366	1.077	1.312	2.192E-02
P58308	Hcrtr2	52.46	3.5	1	2	1	0.956	0.860	0.784	0.840	1.275	1.273	0.999	0.984	1.317	2.221E-02
Q9D938	Tmem160	19.59	6.9	1	1	1	0.955	0.923	0.747	0.847	1.121	1.062	1.269	1.126	1.319	4.916E-03
Q91ZP3	Lpin1	102.00	6.8	4	4	4	0.737	0.982	0.878	0.864	1.083	1.054	1.347	1.101	1.325	1.567E-02
Q8VE37	Rcc1	44.93	4.5	2	2	2	0.755	0.935	0.872	0.901	1.127	0.921	1.189	1.398	1.338	3.232E-02

Q9DBG7	Srpra	69.62	7.2	4	4	4	0.828	0.958	0.754	0.896	0.923	1.042	1.377	1.328	1.359	4.041E-02
Q3THF9	Coq10b	27.27	4.2	1	1	1	0.852	0.826	1.019	0.715	1.154	1.221	1.273	1.000	1.362	1.165E-02
Q91VS7	Mgst1	17.55	8.4	1	3	1	0.870	0.979	0.776	0.779	1.130	1.094	1.194	1.229	1.365	1.557E-03
P61014	Pln	6.09	23.1	2	6	2	0.920	0.944	0.775	0.742	1.106	1.064	1.233	1.229	1.370	3.327E-03
A6BLY7	Krt28	50.35	5.2	3	3	1	0.914	0.843	0.789	0.794	0.986	0.891	1.331	1.370	1.371	4.704E-02
Q91WD2	Trpv6	87.39	1.6	1	1	1	0.824	0.813	0.873	0.911	0.990	1.073	1.321	1.310	1.372	1.048E-02
Q3U276	Sdhaf1	13.14	6.8	1	1	1	0.960	0.877	0.763	0.793	1.212	1.068	1.077	1.299	1.372	4.421E-03
Q9CQ86	Mien1	12.30	7.8	1	1	1	0.897	0.851	0.812	0.819	1.220	1.183	1.209	1.036	1.376	5.096E-04
Q91V09	Wdr13	53.66	4.7	2	2	2	0.931	0.897	0.725	0.819	1.205	1.177	1.120	1.143	1.378	6.664E-04
Q8R4S0	Ppp1r14c	17.75	22.6	2	3	2	0.869	0.786	0.829	0.894	1.117	1.492	1.141	0.904	1.378	4.224E-02
P35505	Fah	46.18	16.0	6	8	6	0.885	0.898	0.783	0.841	1.120	1.128	1.232	1.216	1.378	1.698E-04
Q9Z2A9	Ggt5	61.67	5.4	4	5	4	0.802	0.771	0.864	0.936	1.381	1.050	1.078	1.150	1.381	8.449E-03
Q8VC19	Alas1	71.02	6.4	4	4	4	0.791	0.949	0.760	0.848	1.144	1.331	1.091	1.077	1.387	4.063E-03
P35969	Flt1	149.87	0.8	1	1	1	0.955	0.958	0.754	0.687	1.149	1.248	1.222	1.047	1.391	7.437E-03
Q9JIF9	Myot	55.32	31.7	14	19	14	0.809	0.843	0.862	0.829	1.226	1.237	1.103	1.096	1.395	1.675E-04
Q6P5D8	Smchd1	225.65	1.5	3	3	3	0.804	0.989	0.783	0.761	1.316	1.136	1.086	1.128	1.398	3.908E-03
P59672	Anks1a	125.24	3.7	3	4	3	0.685	0.776	0.875	1.001	1.316	1.168	1.120	1.081	1.404	7.445E-03
Q9QY15	Dnajb2	35.59	15.7	5	7	4	0.900	0.765	0.722	0.944	1.372	0.957	1.254	1.137	1.417	1.511E-02
Q3UV17	Krt76	62.84	4.2	3	2	1	0.750	0.662	0.813	0.807	1.099	1.106	1.478	1.447	1.692	3.080E-03

Supplemental Table 3. Key Reagents

REAGENT	SOURCE	IDENTIFIER
Antibodies		
Anti-mouse PD-1	BioXcell	Cat#BE0273, RRID:AB_2687796
Anti-mouse Ctlα4	BioXcell	Cat #BE0164, RRID:AB_10949609
Anti-normal IgG	BioXcell	Cat#BE0083, RRID:AB_110778
Anti-GSDME	Abcam	Cat#ab215191, RRID:AB_2737000
Anti-GSDME-N terminal	Abcam	Cat#ab222407, RRID:AB_2923216
Anti-GSDMD	Abcam	Cat#ab209845, RRID:AB_2783550
Anti-Caspase-1	Abcam	Cat#ab179515, RRID:AB_2884954
Anti-Caspase-3	Santa Cruz Biotechnolog	Cat#sc-373730, RRID:AB_10918110
Anti-Caspase-8	Cell signaling technology	Cat#4927, RRID: AB_2068301
Anti-Caspase-9	Abcam	Cat#ab202068, RRID: AB_2889070
Anti-Caspase-11	Abcam	Cat#ab180673, RRID:AB_2923217
Anti-Nos2	Cell signaling technology	Cat #13120, RRID:AB_2687529
Anti-IL-1β	Santa Cruz Biotechnology	Cat#sc-52012, RRID:AB_629741
Anti-cGAS	Cell signaling technology	Cat#31659, RRID:AB_2799008
Anti-STING	Cell signaling technology	Cat#13647, RRID:AB_2732796
Anti-IRF3	Cell signaling technology	Cat#4302, RRID:AB_1904036
Anti-p-IRF3	Cell signaling technology	Cat#29047, RRID:AB_2773013
Anti-TBK1	Cell signaling technology	Cat#38066, RRID:AB_2827657
Anti-p-TBK1	Cell signaling technology	Cat#5483, RRID:AB_10693472
Anti-β-Tubulin	Cell signaling technology	Cat#2128, RRID:AB_823664
Anti-CD3	Abcam	Cat#ab16669, RRID:AB_443425
Anti-CD4	Abcam	Cat#ab183685, RRID:AB_2686917
Anti-CD8	Abcam	Cat#ab217344, RRID:AB_2890649
Anti-CD68	Cell signaling technology	Cat#97778, RRID:AB_2928056
Anti-IFN-γ	Thermo Fisher Scientific	Cat#14-7311-81, RRID:AB_468467
Anti-Myh6	Thermo Fisher Scientific	Cat# MA5-27819, RRID:AB_2735280
Anti-IFN-γ-FITC	BioLegend	Cat#505806, RRID:AB_315400

Anti-STING	Novus	Cat#NBP2-24683, RRID: AB_2868483
Anti-MPO-FITC	Thermo Fisher Scientific	Cat#11-1299-42, RRID:AB_10596801
Anti-CXCR2-APC	BioLegend	Cat#149312, RRID:AB_2728185
Anti-CD68-APC	BioLegend	Cat#137008, RRID:AB_10575300
Anti-CD45-PerCP/Cyanine5.5	BioLegend	Cat#103132, RRID:AB_893340
Anti-CD3-FITC	BioLegend	Cat#100204, RRID:AB_312661
Anti-CD4-AF700	BioLegend	Cat#116022, RRID:AB_2715958
Anti-IFN- γ -BV650	BioLegend	Cat#505832, RRID:AB_2734492
Anti-IL-4-BV421	BioLegend	Cat#504119, RRID:AB_10896945
Anti-IL-17A-BV605	BD Biosciences	Cat#564169, RRID:AB_2738640
Anti-CD11b-APC/Fire750	BioLegend	Cat#101261, RRID:AB_2572121
Anti-CD8a-APC/Cyanine7	BioLegend	Cat#100714, RRID:AB_312753
Anti-CD62L-PE/Cyanine7	BioLegend	Cat#104418, RRID:AB_313103
Anti-CD44-PE/Dazzle™ 594	BioLegend	Cat#103056, RRID:AB_2564044
Anti-TCR γ/δ - PE	BioLegend	Cat#118108, RRID:AB_313832
Anti-CD45-BV605	BioLegend	Cat#103139, RRID:AB_2562341
Anti-CD3-APC	BioLegend	Cat#100236, RRID:AB_2561456
Anti-CD11B-BB515	BD Biosciences	Cat#564454, RRID:AB_2665392
Anti-LY6G-BV421	BD Biosciences	Cat#562737, RRID:AB_2737756
Anti-F4/80-APC-R700	BD Biosciences	Cat#565787, RRID:AB_2869711
Anti-CCR2-BV650	BioLegend	Cat#150613, RRID:AB_2721553
Anti-MHC-II-APC/Fire750	BioLegend	Cat#107651, RRID:AB_2616728
Anti-Ly6C-PE	BioLegend	Cat#128007, RRID:AB_1186133
Anti-CD64- PE/Cyanine7	BioLegend	Cat#139314, RRID: AB_2563904
IRDye 800CW Goat anti-Mouse IgG antibody	LI-COR	Cat#926-32210, RRID:AB_621842
IRDye 800CW Goat anti-Rabbit IgG antibody	LI-COR	Cat#925-32211, RRID:AB_2651127
Alexa Fluor 488-conjugated goat anti-rabbit IgG	Thermo Fisher Scientific	Cat#A-11034, RRID:AB_2576217
Alexa Fluor 568-conjugated goat anti-mouse IgG	Thermo Fisher Scientific	Cat#A-21134, RRID:AB_2535773
Biological Samples		
Serum samples cancer patients treated with ICI	Shanghai Changzheng Hospital	Approval number: 2017SL016
Serum samples cancer patients treated with ICI	Shanghai Tenth People's Hospital	Approval number: 2019-K-032
Chemicals, Peptides, and Recombinant Proteins		

TRIzol	Thermo Fisher Scientific	15596026
WGA	Thermo Fisher Scientific	W11261
DAPI	Thermo Fisher Scientific	D1306
PI	Sigma	25535-16-4
MitoSOX	Thermo Fisher Scientific	M36008
Normal Goat Serum	Thermo Fisher Scientific	31872
Sirius Red	Sigma-Aldrich	365548
Prestained Protein Marker	GeneTex	GTX50875
Collagenase II	Worthington	LS004176
RBC lysis buffer	eBiosciences	00-4333-57
DNase I	Sigma	10104159001
DMF	Sigma	242926
Protease and phosphatase inhibitors	Sigma	PPC1010
DL1000 DNA ladder	Takara Bio	3591A
DL2000 DNA ladder	Takara Bio	3427A
PrimeScript™ RT Master Mix	Takara Bio	RR036A
TB Green® Premix Ex Taq™ II	Takara Bio	RR820Q
TransScript® First-Strand cDNA Synthesis SuperMix	TransGen Biotech	AT301-02
Critical Commercial Assays		
Human/Mouse GSDME ELISA Kit	Adipogen Life Sciences	AG-45B-0024-KI01
Mouse IL-1β ELISA kit	R&D systems	MLB00C
Mouse IL-18 ELISA Kit	R&D systems	7625
Mouse IL-6 ELISA Kit	R&D systems	M6000B
Mouse cTnT ELISA Kit	Sangon Biotech	D721161-0096
Mouse cTnI ELISA Kit	Sangon Biotech	D721149-0096
Mouse CK-MB ELISA Kit	Sangon Biotech	D721065-0096
Mouse Caspase1 ELISA Kit	Beyotime Biotechnology	C1102
Mouse Caspase3 ELISA Kit	Beyotime Biotechnology	C1116
Mouse Caspase8 ELISA Kit	Beyotime Biotechnology	C1152
Mouse Caspase9 ELISA Kit	Beyotime Biotechnology	C1158
Mitochondria isolation Kit	Sigma-Aldrich	MITOISO1

In situ Cell Death Detection Kit, Fluorescein	Merck	11684795910
Mitochondrial complex I ELISA kit	Abcam	ab287847
NAD ⁺ Assay Kit	Abcam	ab65348
Mitochondrial complex IV ELISA kit	Solarbio	BC0945
ATP assay kit	Solarbio	BC0300
GSH assay kit	Solarbio	BC1175
BCA protein assay kit	Beyotime Biotechnology	P0011
Tandem Mass Tag Multiplexed Labelling System	Thermo Fisher Scientific	N/A
Quant-iT PicoGreen dsDNA Kits	Thermo Fisher Scientific	P11495
Deposited Data		
Tandem Mass Tag Multiplexed quantitative proteomics	iProx database	IPX0004084000
Experimental Models: Organisms/Strains		
Mouse: <i>Lysm-Cre</i> : B6.129P2- <i>Lyz2</i> ^{tm1(cre)lfo} /J	The Jackson Laboratory	JAX stock 004781
Mouse: <i>Myh6-Cre</i> : B6.FVB-Tg ^{Myh6-(cre)2182Mds} /J	The Jackson Laboratory	JAX stock 011038
Mouse: <i>Sting</i> ^{gt/gt} : C57BL/6J- <i>Sting1</i> ^{gt} /J	The Jackson Laboratory	JAX stock 017537
Mouse: <i>Gsdme</i> ^{stop/stop}	This study	N/A
Mouse: <i>Gsdme</i> ^{-/-}	This study	N/A
Experimental Models: Cell Lines		

Cell: MC38 mouse colon adenocarcinoma cells	Kerafast	N/A
Oligonucleotides		
Primers for mouse <i>Caspase-1</i> Forward	This study	AGGCACGGGACCTATGTGAT
Primers for mouse <i>Caspase-1</i> Reverse	This study	AGGGCAAACCTTGAGGGTCC
Primers for mouse <i>Caspase-3</i> Forward	This study	GAGCTTGGAACGGTACGCTA
Primers for mouse <i>Caspase-3</i> Reverse	This study	CCGTACCAGAGCGAGATGAC
Primers for mouse <i>Caspase-8</i> Forward	This study	TTCGGAGGCATTTCTGTCCC
Primers for mouse <i>Caspase-8</i> Reverse	This study	CGGCTCACAGAGGTTTGCTA
Primers for mouse <i>Caspase-9</i> Forward	This study	ACCTTCCCAGGTTGCCAATG
Primers for mouse <i>Caspase-9</i> Reverse	This study	GCTGCTAGGAGCATGTTTGC
Primers for mouse <i>Caspase-11</i> Forward	This study	GGCTACGATGTGGTGGTGAA
Primers for mouse <i>Caspase-11</i> Reverse	This study	AGGCCTGCACAATGATGACT
Primers for mouse <i>Gsdma</i> Forward	This study	GCACCCACTAAGCCCATCTC
Primers for mouse <i>Gsdma</i> Reverse	This study	CACACATGGGAAGGATCAGACT
Primers for mouse <i>Gsdmc</i> Forward	This study	TCGGACCTGCTAAAAGGAAGG
Primers for mouse <i>Gsdmc</i> Reverse	This study	AGCCAACCGGGAAGAAGTTT
Primers for mouse <i>Gsdmd</i> Forward	This study	GATCAAGGAGGTAAGCGGCA
Primers for mouse <i>Gsdmd</i> Reverse	This study	CACTCCGGTTCTGGTTCTGG
Primers for mouse <i>Gsdme</i> Forward	This study	GGTGGGATACAGGATACAAGGA
Primers for mouse <i>Gsdme</i> Reverse	This study	GCAGCACAGCGAAGAAATAAC
Primers for mouse <i>Tnnt2</i> Forward	This study	GTGTGCAGTCCCTGTTTCTG
Primers for mouse <i>Tnnt2</i> Reverse	This study	GCTTGGGTTTGGTGTCTCT
Primers for mouse <i>Tnni3</i> Forward	This study	TGTCCTCGCCCCTTATCTCA

Primers for mouse <i>Tnni3</i> Reverse	This study	GGTCCCCAGCCGCATC
Primers for mouse <i>Icam1</i> Forward	This study	TTCTCATGCCGCACAGAACT
Primers for mouse <i>Icam1</i> Reverse	This study	TCCTGGCCTCGGAGACATTA
Primers for mouse <i>Vav2</i> Forward	This study	ACAGAGCAAAGGGATCAGGC
Primers for mouse <i>Vav2</i> Reverse	This study	CCCATTTTCATGGGCTGCTG
Primers for mouse <i>Sell</i> Forward	This study	GACATGGGTGGGAACCAACA
Primers for mouse <i>Sell</i> Reverse	This study	CACTGGACCACTGTGTAGCA
Primers for mouse <i>Myh6</i> Forward	This study	ATAAAGGGGCTGGAGCACTG
Primers for mouse <i>Myh6</i> Reverse	This study	GCCTCTAGGCGTTCCTTCTC
Primers for mouse <i>Ptprc</i> Forward	This study	GGCGCATCAGAAGGGGATAA
Primers for mouse <i>Ptprc</i> Reverse	This study	GCTGTTGCAAATGTGCTGCT
Primers for mouse <i>Cxcl1</i> Forward	This study	ACTCAAGAATGGTCGCGAGG
Primers for mouse <i>Cxcl1</i> Reverse	This study	GTGCCATCAGAGCAGTCTGT
Primers for mouse <i>Ccr2</i> Forward	This study	GCCATCATAAAGGAGCCATAACC
Primers for mouse <i>Ccr2</i> Reverse	This study	ATGCCGTGGATGAACTGAGG
Primers for mouse <i>Cxcr2</i> Forward	This study	CTCTGCTCACAAACAGCGTC
Primers for mouse <i>Cxcr2</i> Reverse	This study	TCTCTGAGTGGCATGGGACA
Primers for mouse α -SMA Forward	This study	GTACCCAGGCATTGCTGACA
Primers for mouse α -SMA Reverse	This study	GCTGGAAGGTAGACAGCGAA
Primers for mouse <i>mt-Nd1</i> Forward	This study	CACCCAAGAACAGGGTTTGT
Primers for mouse <i>mt-Nd1</i> Reverse	This study	TGGCCATGGGTATGTTGTTAA
Primers for mouse <i>D-loop</i> Forward	This study	CTATCACCCCTATTAACCACTCA
Primers for mouse <i>D-loop</i> Reverse	This study	TTCGCCTGTAATATTGAACGTA

Primers for mouse <i>18S</i> Forward	This study	CTACCACATCCAAGGAAGC
Primers for mouse <i>18S</i> Reverse	This study	TTTTCGTCACTACCTCCCCG
Primers for mouse <i>Col1a1</i> Forward	This study	TTCTCCTGGCAAAGACGGAC
Primers for mouse <i>Col1a1</i> Reverse	This study	CTCAAGGTCACGGTCACGAA
Primers for mouse <i>Col3a1</i> Forward	This study	GAGGAATGGGTGGCTATCCG
Primers for mouse <i>Col3a1</i> Reverse	This study	TCGTCCAGGTCTTCTGACT
Primers for mouse <i>Axl</i> Forward	This study	TTCAACTGTGCTACGTCCCC
Primers for mouse <i>Axl</i> Reverse	This study	GGGTCCCTCTAGGTAAGCCA
Primers for mouse <i>Nos2</i> Forward	This study	AACAGGGAGAAAGCGCAAAAC
Primers for mouse <i>Nos2</i> Reverse	This study	TCCACTGCCCCAGTTTTTGA
Primers for mouse <i>H2-DMa</i> Forward	This study	AGGGGGTATATGGAGCACTCT
Primers for mouse <i>H2-DMa</i> Reverse	This study	CGCAGCAGGTCTCTCGTTTT
Primers for mouse <i>GzmB</i> Forward	This study	GAAGCCAGGAGATGTGTGCT
Primers for mouse <i>GzmB</i> Reverse	This study	GCACGTTTGGTCTTTGGGTC
Primers for mouse <i>Prf1</i> Forward	This study	TCTTGGTGGGACTTCAGCTT
Primers for mouse <i>Prf1</i> Reverse	This study	TGCTTGCATTCTGACCGAGT
Primers for mouse <i>IFN-γ</i> Forward	This study	CGGCACAGTCATTGAAAGCC
Primers for mouse <i>IFN-γ</i> Reverse	This study	TGCATCCTTTTTCGCCTTGC
Primers for mouse <i>IL-2</i> Forward	This study	GCCCCAAGGGCTCAAAAATG
Primers for mouse <i>IL-2</i> Reverse	This study	GCGCTTACTTTGTGCTGTCC
Primers for mouse <i>IL-17A</i> Forward	This study	GCTGACCCCTAAGAAACCCC
Primers for mouse <i>IL-17A</i> Reverse	This study	GAAGCAGTTTGGGACCCCTT
Primers for mouse <i>IL-6</i> Forward	This study	ATGAAGTTCCTCTCTGCAAGAGAC
Primers for mouse <i>IL-6</i> Reverse	This study	CACTAGGTTTGCCGAGTAGATCTC

Primers for mouse <i>IL-18</i> Forward	This study	GTAAGAGGACTGGCTGTGACCC
Primers for mouse <i>IL-18</i> Reverse	This study	CTTTTGGCAAGCAAGAAAGTGT
Primers for mouse <i>IL-1 β</i> Forward	This study	TGCCACCTTTTGACAGTGATG
Primers for mouse <i>IL-1 β</i> Reverse	This study	AAGGTCCACGGGAAAGACAC
Primers for mouse <i>Elane</i> Forward	This study	CTTCATCCGAGGAGGCTGTG
Primers for mouse <i>Elane</i> Reverse	This study	GAGGTCTCTGGTAGAGGGGG
Primers for mouse <i>Padi4</i> Forward	This study	CCTACAGGTGAAAGCAGCCA
Primers for mouse <i>Padi4</i> Reverse	This study	TCAAAGTCCATTCCGGAGGC
Primers for mouse <i>IL-4</i> Forward	This study	CCATATCCACGGATGCGACA
Primers for mouse <i>IL-4</i> Reverse	This study	AAGCCCGAAAGAGTCTCTGC
Primers for mouse <i>IL-10</i> Forward	This study	GCTCCAAGACCAAGGTGTCT
Primers for mouse <i>IL-10</i> Reverse	This study	CGGAGAGAGGTACAAACGAGG
Primers for mouse <i>Ccr5</i> Forward	This study	GCAGTTTCGGAGCAGTGTTG
Primers for mouse <i>Ccr5</i> Reverse	This study	ACATGTGCACAGAAATCCCAG
Primers for mouse <i>Ii22</i> Forward	This study	TGCGATCTCTGATGGCTGTC
Primers for mouse <i>Ii22</i> Reverse	This study	CCTCGGAACAGTTTCTCCCC
Primers for mouse <i>Tnfa</i> Forward	This study	AGGCACTCCCCCAAAGATG
Primers for mouse <i>Tnfa</i> Reverse	This study	CCACTTGGTGGTTTGTGAGTG
Primers for mouse <i>Ccl5</i> Forward	This study	TGCTCCAATCTTGCAGTCGT
Primers for mouse <i>Ccl5</i> Reverse	This study	GCAAGCAATGACAGGGAAGC
Primers for mouse <i>Gapdh</i> Forward	This study	CCCATCACCATCTTCCAGGAG
Primers for mouse <i>Gapdh</i> Reverse	This study	TTCACCACCTTCTTCTTGATGTCAT

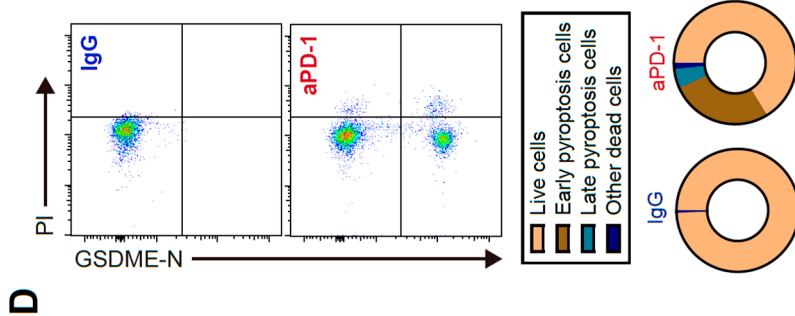
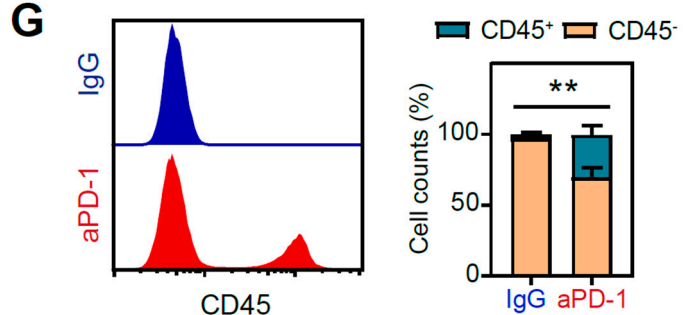
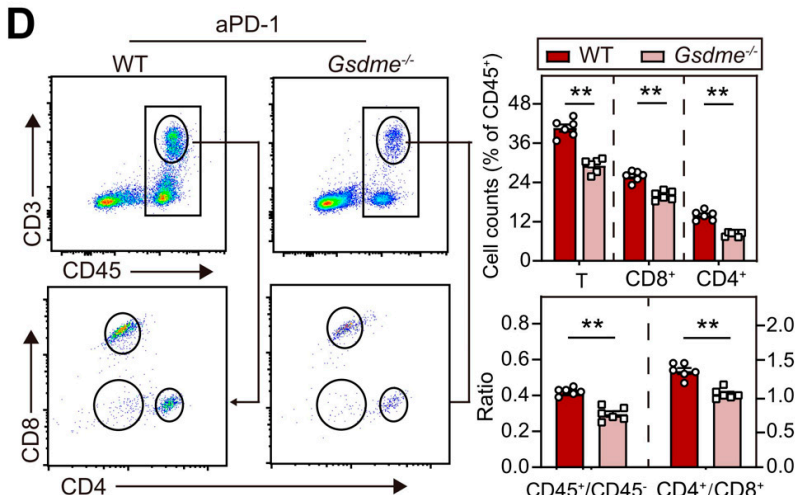
Software and Algorithms

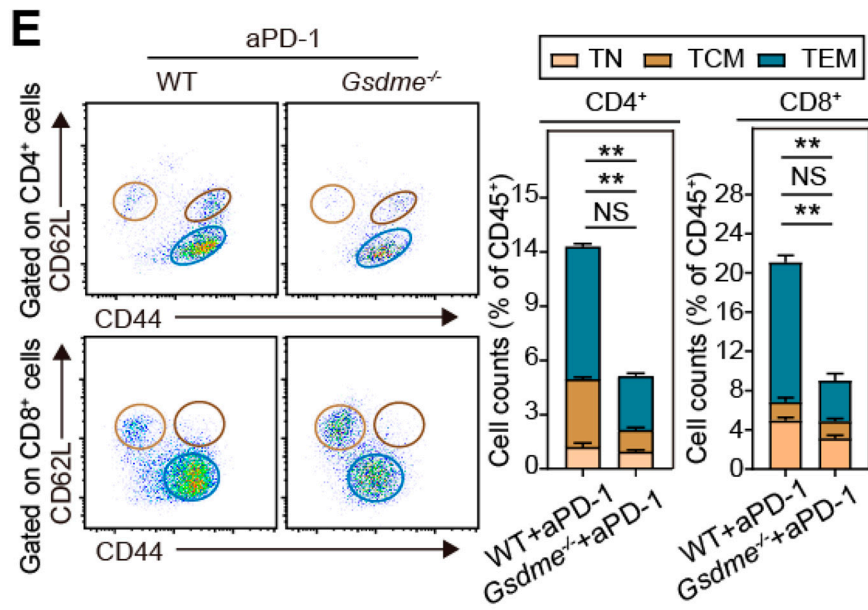
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Image J	National Institutes of Health	https://imagej.nih.gov/ij/ , RRID:SCR_003070
Vevo 2100 v3.1.1	VisualSonics	https://www.visualsonics.com/product/imaging-systems/vevo-2100

2

3

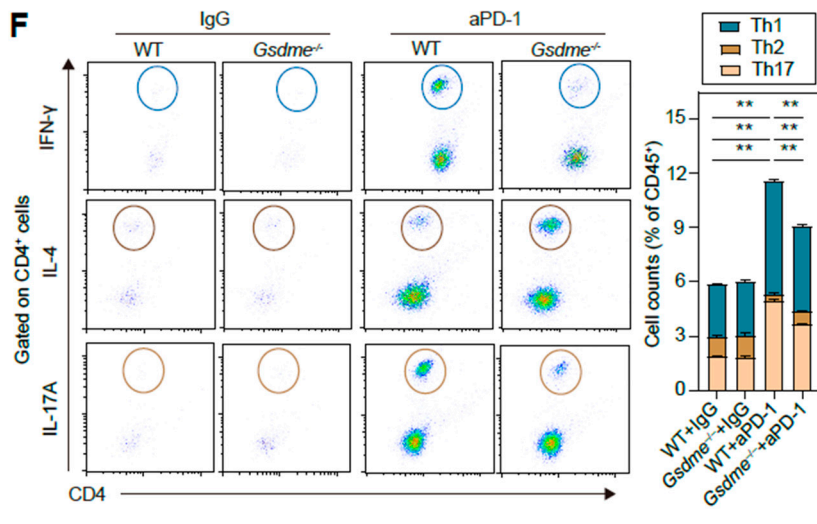
Supplemental Table 4. Gating strategy for flow cytometry

Flow cytometry plot in Figures	Gating strategies
<p>D</p> 	<p>(Figure 1D) Gated on single cells</p>
<p>G</p> 	<p>(Figure 1G) Gated on single cells</p>
<p>D</p> 	<p>(Figure 3D) Gated on single cells</p>

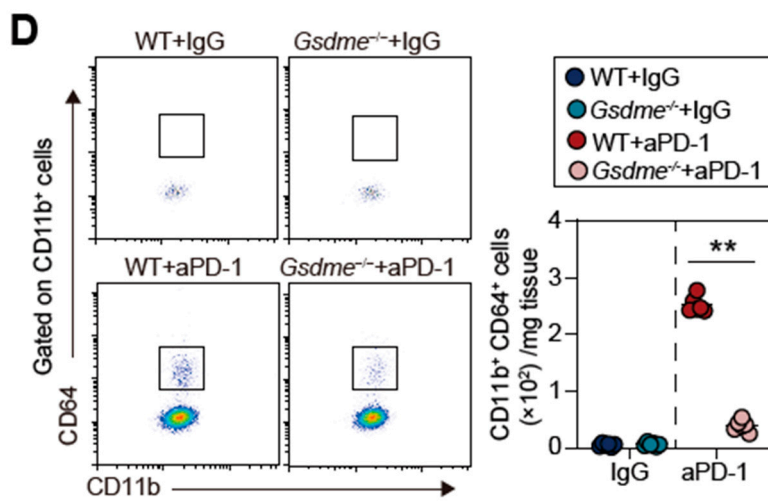


(Figure 3E up)
Gated on CD4⁺CD3⁺CD4⁺ cells

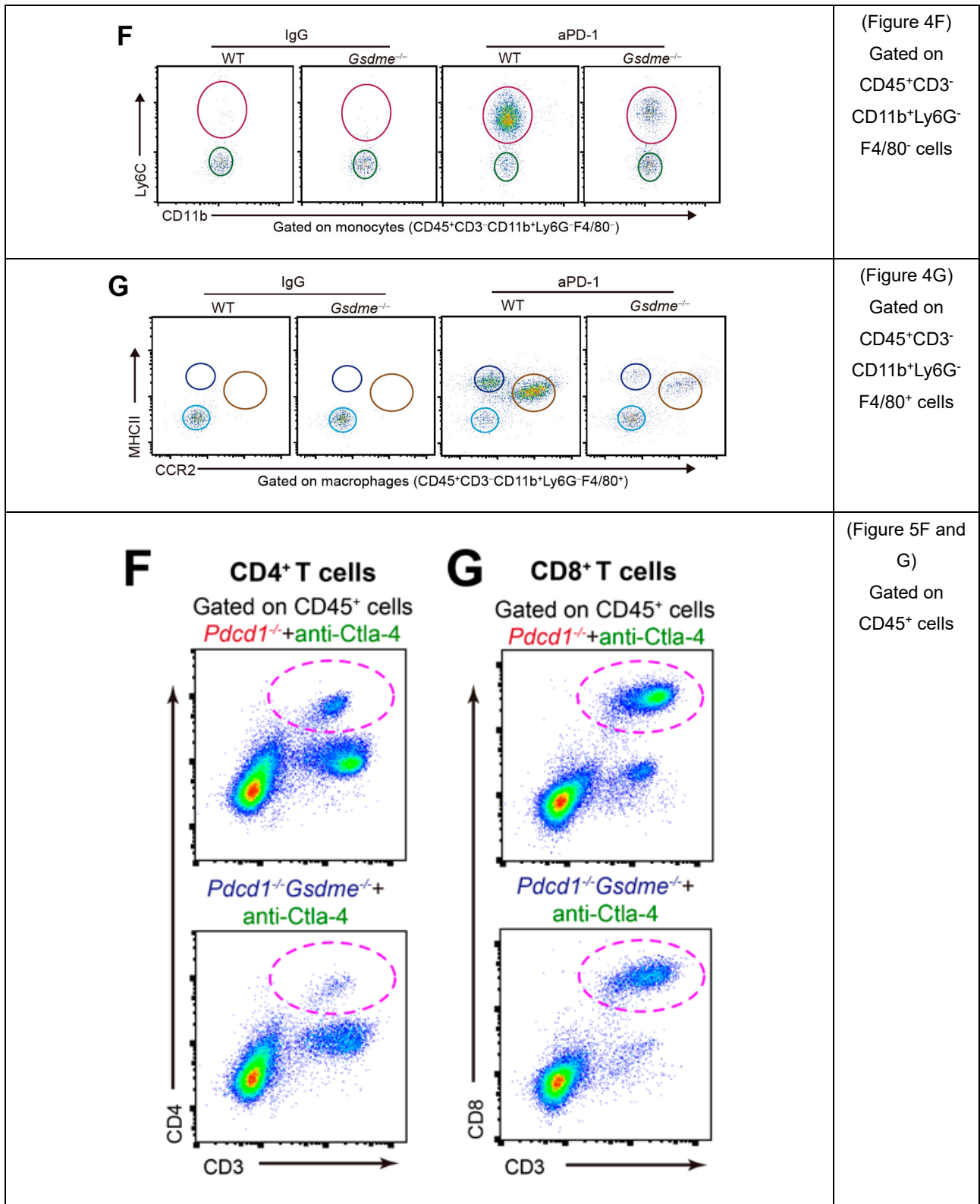
(Figure 3E below)
Gated on CD4⁺CD3⁺CD8⁺ cells

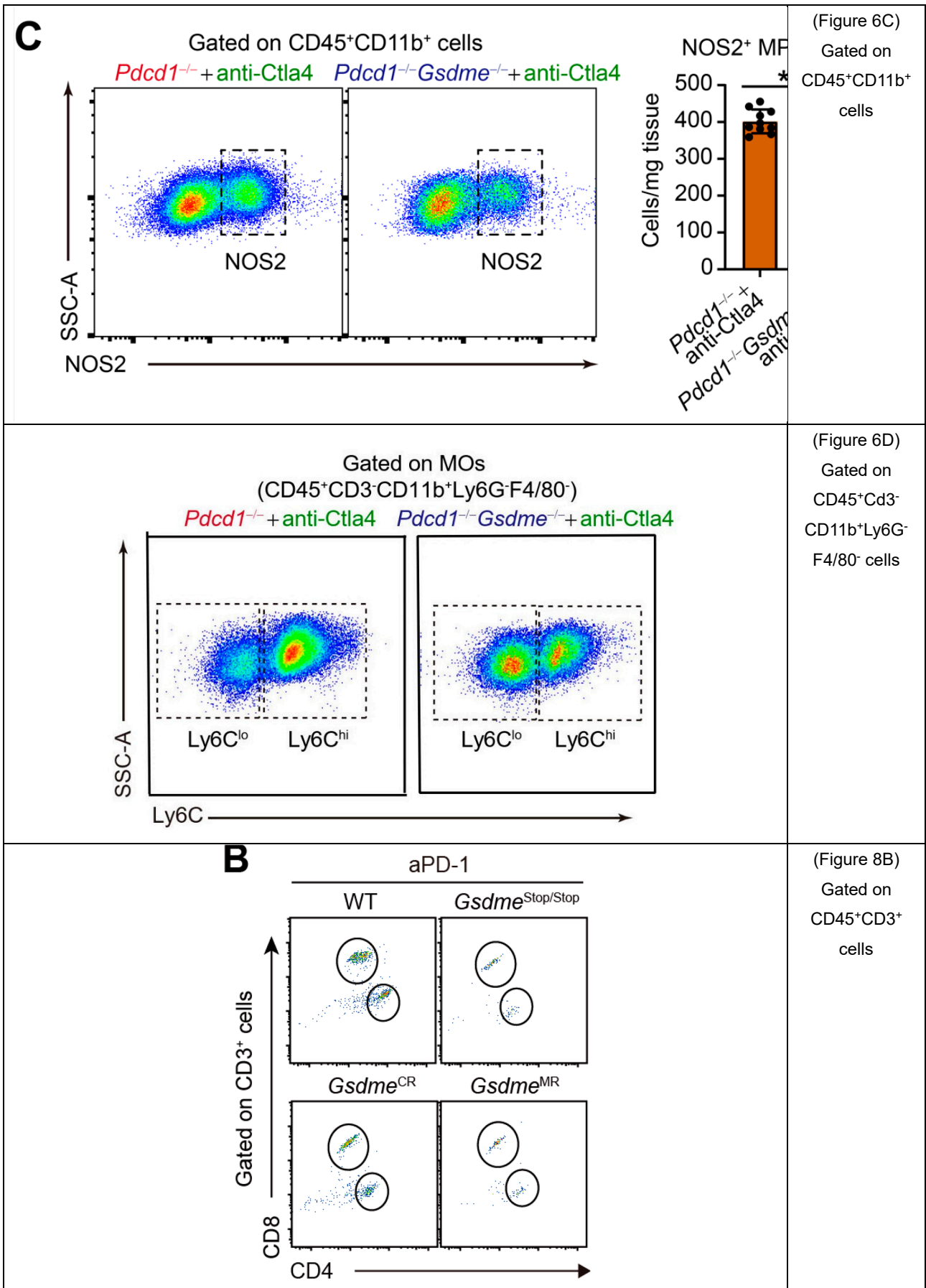


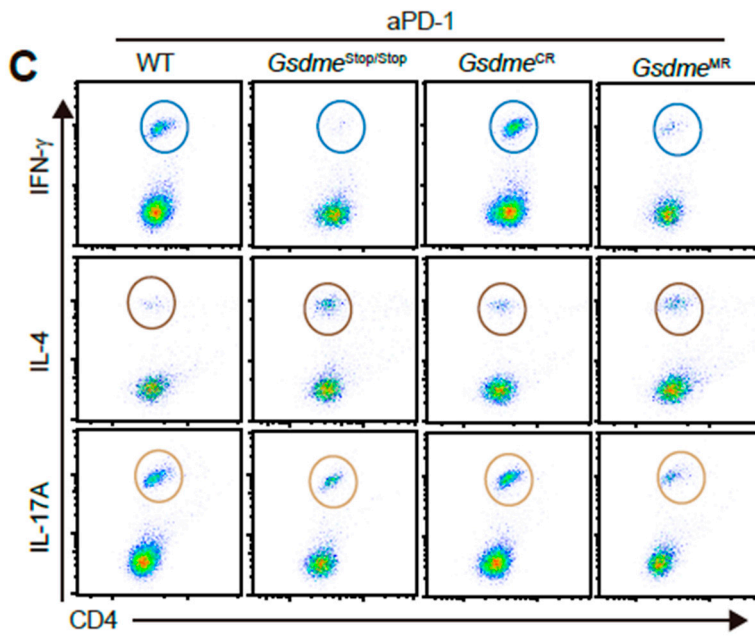
(Figure 3F)
Gated on CD4⁺CD4⁺ cells



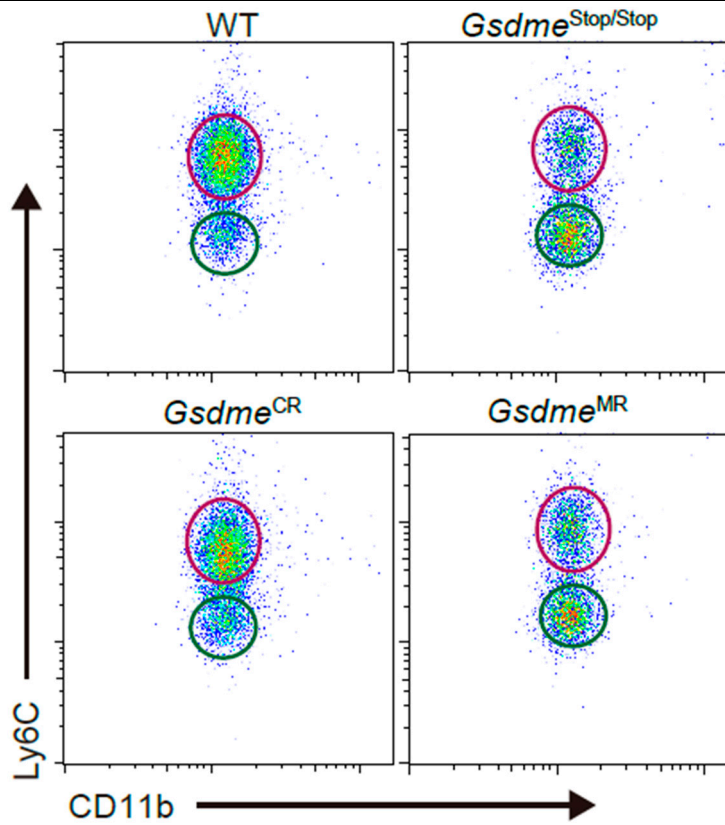
(Figure 4D)
Gated on CD4⁺CD11b⁺ cells



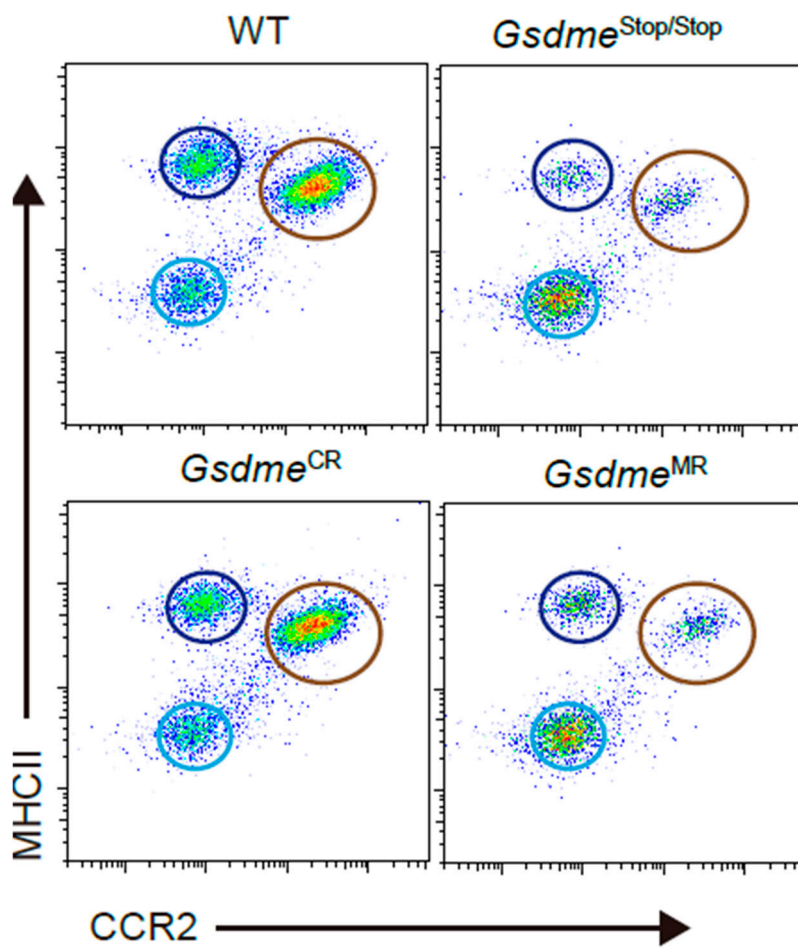




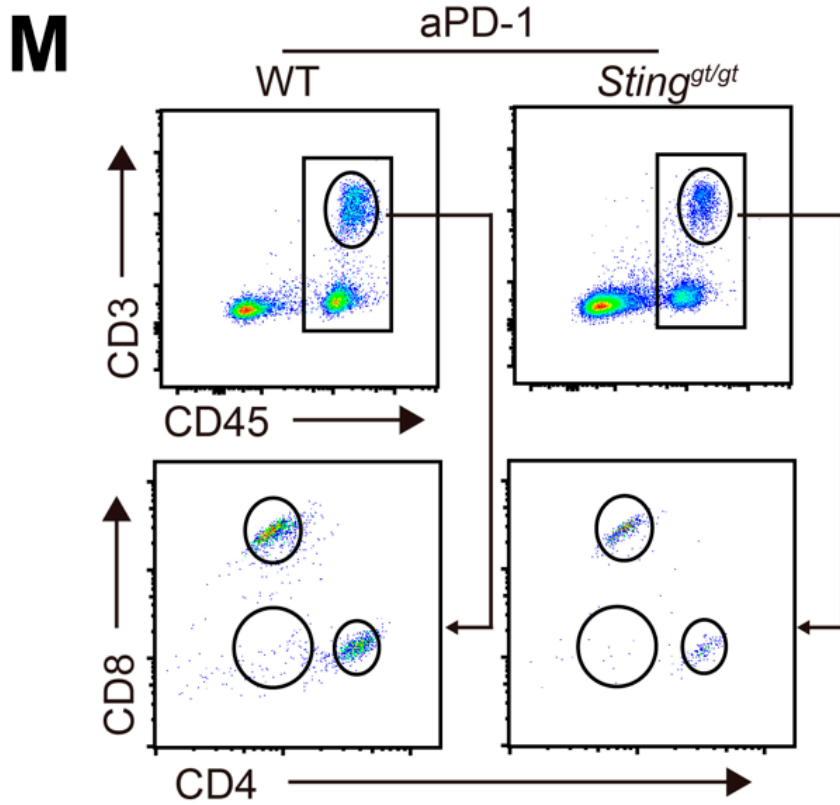
(Figure 8C)
Gated on
CD45⁺CD4⁺
cells



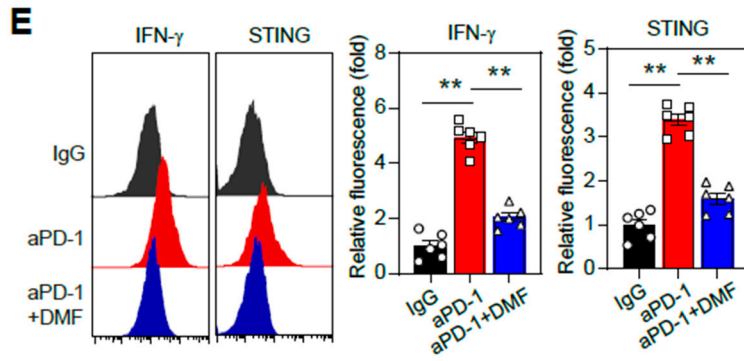
(Figure 8F)
Gated on
CD45⁺CD3⁻
CD11b⁺Ly6C⁻
F4/80⁻ cells



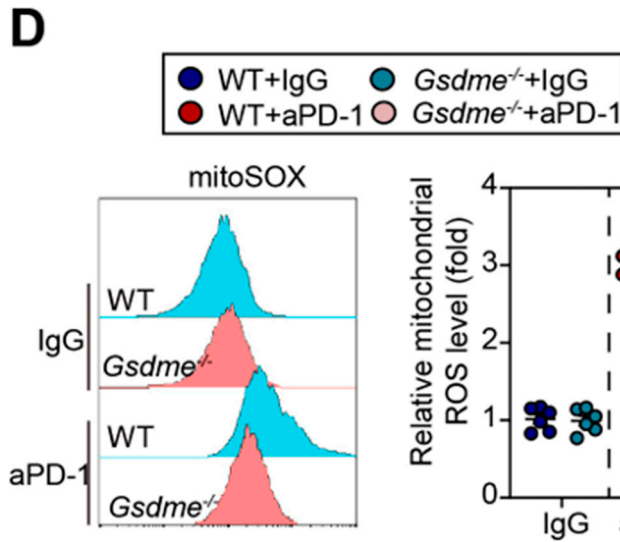
(Figure 8G)
Gated on
CD45⁺CD3⁻
CD11b⁺Ly6G⁻
F4/80⁺ cells



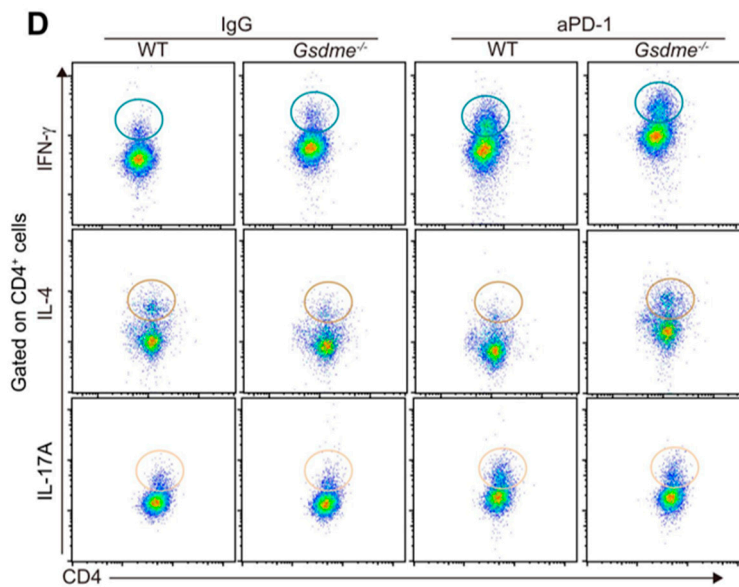
(Figure 9M)
Gated on
single cells



(Figure 9E)
Gated on
single cells

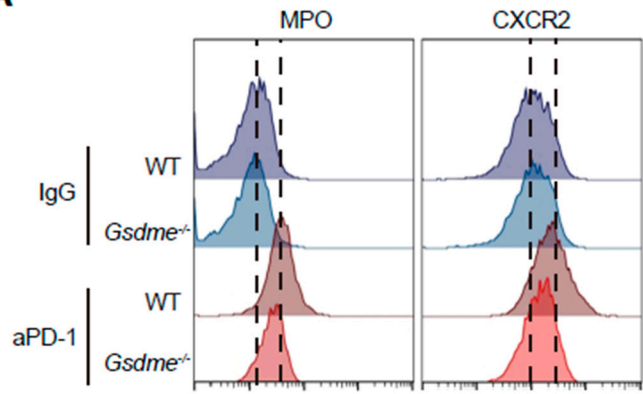


(Supplemental
Figure 4D)
Gated on
single cells

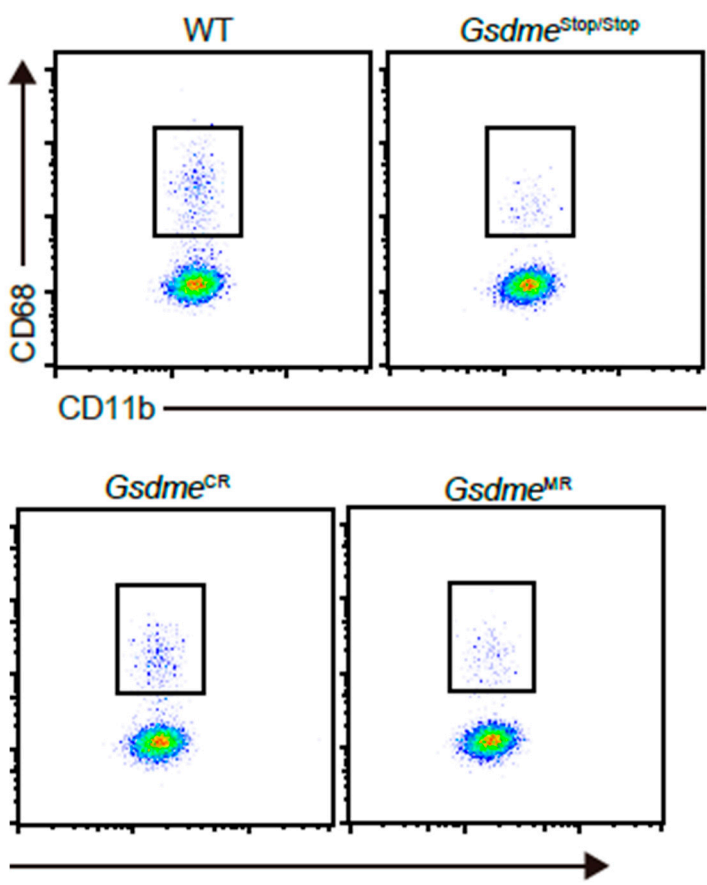


(Supplemental
Figure 6 D)
Gated on
CD45⁺CD4⁺
cells

A



(Supplemental Figure 7 A)
Gated on single cells



(Supplemental Figure 13B)
Gated on CD45⁺CD11b⁺ cells