Fig. S1

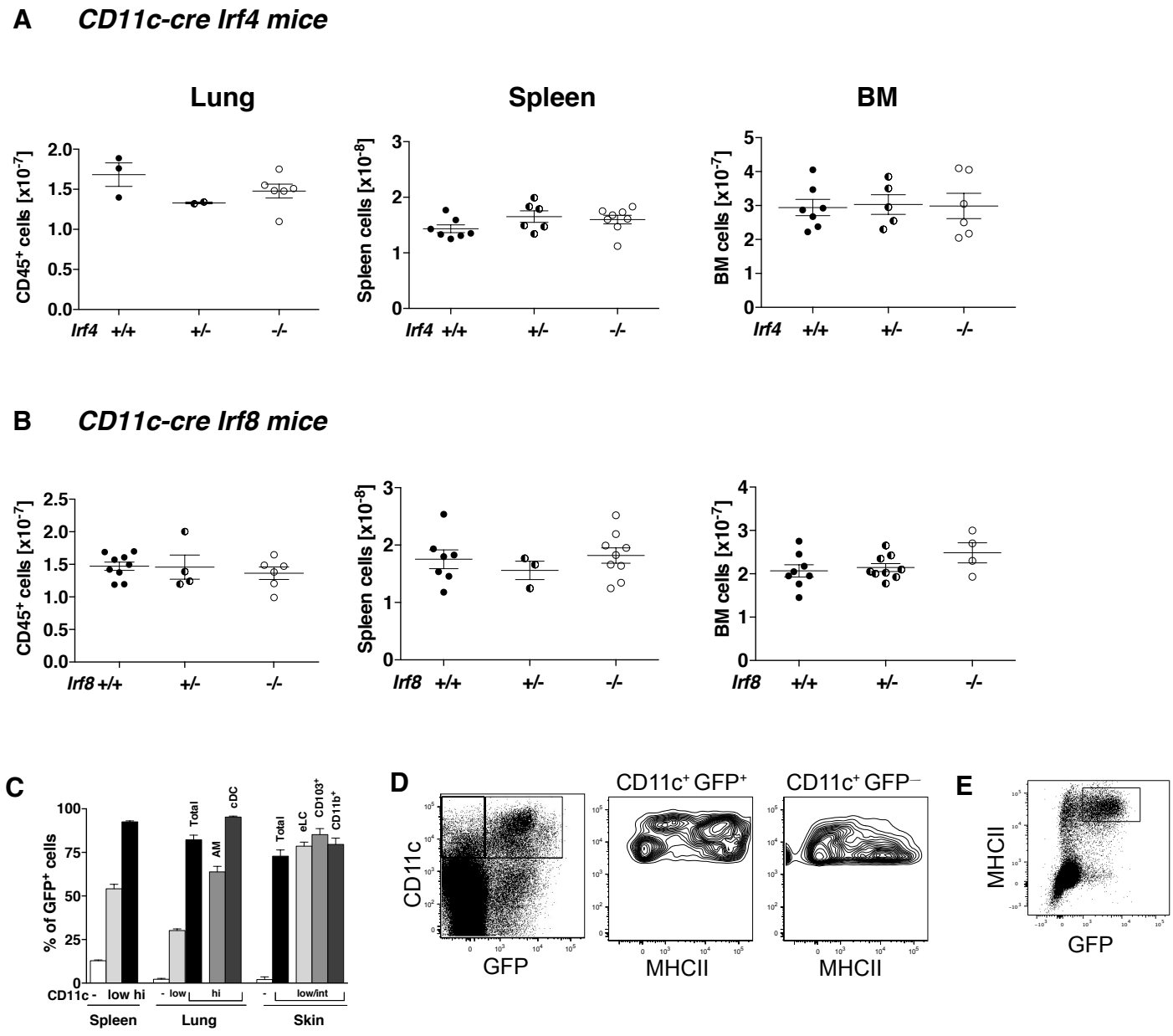

Fig. S1. Total numbers of cells in the lungs, spleen and BM of *CD11c-cre-Irf4* and *CD11c-cre-Irf8* +/+, +/- and -/- mice. (**A**) The total numbers of lung CD45$^+$ cells (n=3-6), splenocytes (n=6-8) and bone marrow cells (n=5-7) in multiple *CD11c-cre-Irf4* +/+, +/- and -/- mice are compiled. (**B**) The total numbers of lung CD45$^+$ cells (n=4-9), splenocytes (n=5-6) and bone marrow cells (n=4-9) in multiple *CD11c-cre-Irf8* +/+, +/- and -/- mice are compiled. (**C**) To illustrate the penetrance of the *Irf4* deletion in *CD11c-cre-Irf4* -/- mice, shown is the percentage of GFP$^+$ cells within the CD11c$^–$, CD11c^{low} and CD11c^{hi} fractions of the spleen, lung and skin. Within the lung CD11c^{hi} fraction, the percentage of GFP$^+$ alveolar macrophages (AM) and cDCs is also reported. Within the skin CD11c$^{low/int}$ fraction, the percentage of GFP$^+$ epidermal Langerhans cells (eLCs), dermal CD103$^+$ DCs and CD11b$^+$ dermal DCs is also reported. (**D**) Shown is the expression of CD11c and GFP in the lung of *CD11c-cre-Irf4* +/- mice. (**E**) Shown is the expression of MHCII and GFP in the dermis of *CD11c-cre-Irf4* -/- mice

Fig. S2

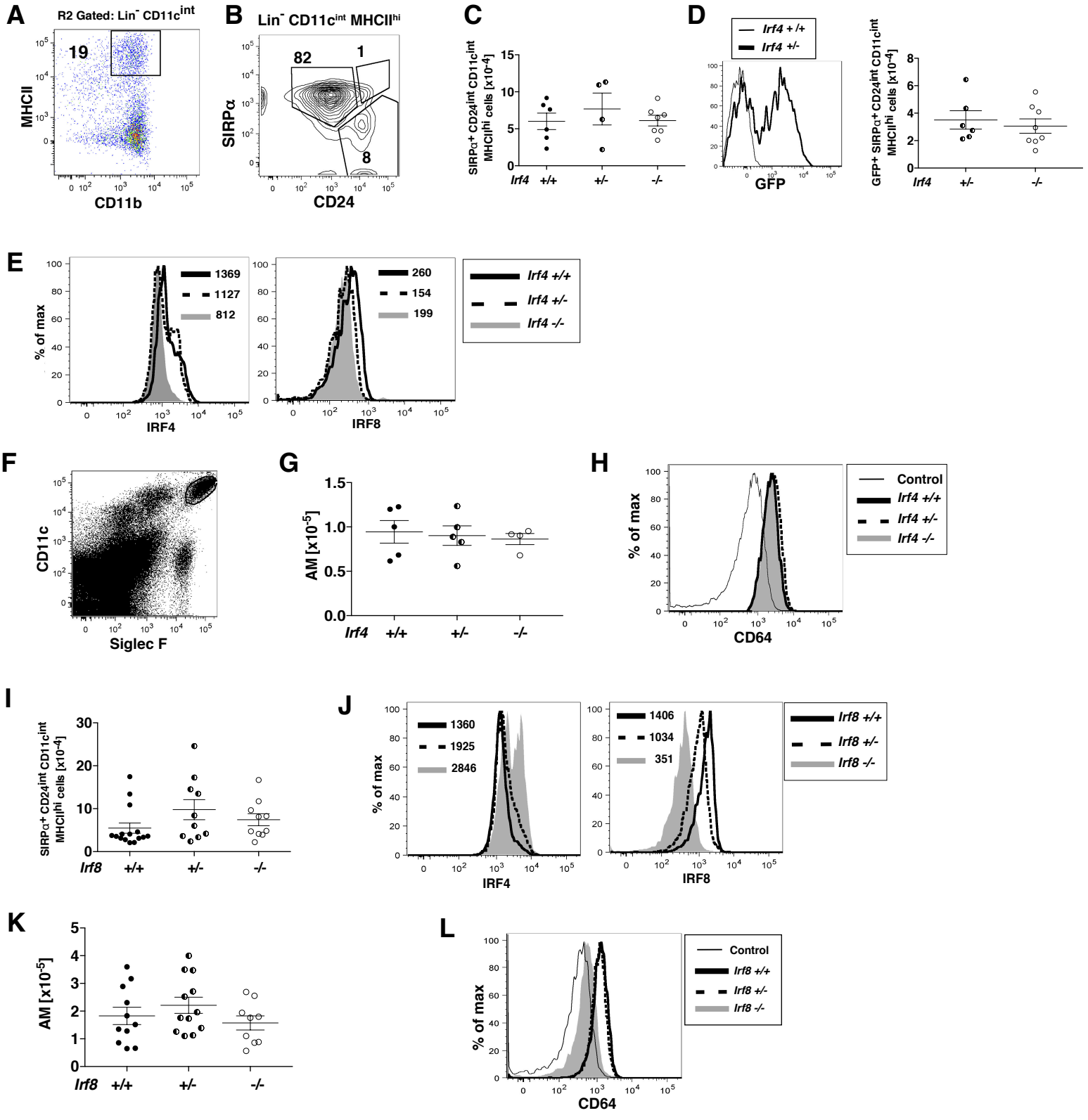
A
R2 Gated: Lin- CD11cint
19
MHCII
CD11b
B
Lin- CD11cint MHCIIhi
82
1
8
SIRPα
CD24
C
SIRPα+ CD24int CD11cint MHCIIhi cells [x10-4]
Irf4 +/+
+/-
-/-
D
Irf4 +/+
Irf4 +/-
GFP
GFP+ SIRPα+ CD24int CD11cint MHCIIhi cells [x10-4]
Irf4
+/-
-/-
E
% of max
1369
1127
812
IRF4
260
154
199
IRF8
Irf4 +/+
Irf4 +/-
Irf4 -/-
F
CD11c
Siglec F
G
AM [x10-5]
Irf4 +/+
+/-
-/-
H
% of max
Control
Irf4 +/+
Irf4 +/-
Irf4 -/-
CD64
I
SIRPα+ CD24int CD11cint MHCIIhi cells [x10-4]
Irf8 +/+
+/-
-/-
J
% of max
1360
1925
2846
IRF4
1406
1034
351
IRF8
Irf8 +/+
Irf8 +/-
Irf8 -/-
K
AM [x10-5]
Irf8 +/+
+/-
-/-
L
% of max
Control
Irf8 +/+
Irf8 +/-
Irf8 -/-
CD64

Fig. S2. Multiple DC and macrophage populations are not affected by *Irf4* or *Irf8* deficiency in CD11c$^+$ cells. (**A-H**) Data are from *CD11c-cre-Irf4* +/+, +/- and -/- mice. (**A**) In the lungs of *CD11c-cre-Irf4* +/+ mice, definition of CD11b$^+$MHCII^{hi} cells in the CD11c^{int}SiglecF$^-$ R2 gate (shown in Fig. 1A). (**B**) DCs are SIRPα^+CD24^{int} (in P2 gate). Shown are the gates for the P1, P2 and P3 subsets of CD11c^{hi} cDCs in gate R1. (**C**) Total numbers of CD11c^{int}MHCII^{hi}CD11b$^+$CD24^{int} cells in the lungs of *CD11c-cre-Irf4* +/+, +/- and -/- mice, n=4-6. (**D**) Only a subset of CD11c^{int}MHCII^{hi} DCs (gated in panel A) is GFP$^+$ in +/- mice. Numbers of GFP$^+$CD11c^{int}MHCII^{hi} DCs in multiple +/- and -/- mice are compiled (n=6-7). (**E**) IRF4 and IRF8 protein levels were determined in +/+, +/- and -/- CD11c^{int}MHCII^{hi}CD11b$^+$CD24^{int} DCs by intracellular staining. The MFI of each histogram is indicated. (**F**) Definition of CD11c^{hi}SiglecF^{hi} alveolar macrophages in the lungs of +/+ mice. (**G**) Numbers of alveolar macrophages in the lungs are compiled from multiple +/+, +/- and -/- mice, n= 4-5. (**H**) The expression of CD64 on alveolar macrophages in +/+, +/- and -/- mice is shown relative to an isotype control. (**I-L**) Data are from *CD11c-cre-Irf8* +/+, +/- and -/- mice. (**I**) Total numbers of CD11c^{int}MHCII^{hi}CD11b$^+$CD24^{int} cells in the lungs of *CD11c-cre-Irf8* +/+, +/- and -/- mice, n=10-15. (**J**) IRF4 and IRF8 protein levels were determined in +/+, +/- and -/- CD11c^{int}MHCII^{hi}CD11b$^+$CD24^{int} DCs by intracellular staining. The MFI of each histogram is indicated. (**K**) Numbers of alveolar macrophages in the lungs are compiled from multiple +/+, +/- and -/- mice, n= 9-11. (**L**) The expression of CD64 on alveolar macrophages in +/+, +/- and -/- mice is shown. The data were evaluated using a one-way ANOVA (panels C, G, I and K) or an unpaired t test (panel D); no significant differences between genotypes were identified.