

Table S1. Primers sequences for siRNA

Gene	Sense	Antisense
Jak2	GGAACAUAUUGGUGGAAAATT	UUUUCCACCAUAUGUUCCTT
Stat1	AGAAGGAGCUGGACAGUAATT	UUACUGUCCAGCUCCUUCUTT
Pfkp	CGUGCACUUGACAGAGAAAATT	UUUCUCUGUCAAGUGCACGTT
Negative Control	UUCUCCGAACGUGUCACGUTT	ACGUGACACGUUCGGAGAATT

Table S2. Antibodies used in Western blot (WB), IHC and IF

Name	Vendor	Cat#	Dilution ratio
β -actin	Affinity	AF7018	1:1000 (WB)
PCK	MCE	HY-P81164	1:200 (IF)
α -SMA	Affinity	AF1032	1:200 (IF)
CD4	Immunoway	YT0762	1:200 (IF)
F4/80	Affinity	DF2789	1:200 (IF)
HMGB1	Affinity	AF7020	1:1000(WB); 1:200 (IHC, IF)
IL-18	Affinity	DF6252	1:1000 (WB)
GSDMD	Affinity	AF4012	1:1000 (WB)/1:200(IF)
Caspase1	Affinity	AF5418	1:1000 (WB)/1:200(IF)
Jak2	Immunoway	YT2426	1:1000 (WB)
p-Jak2	Immunoway	YP0155	1:1000 (WB)
Stat1	Cell Signaling Technology	9172T	1:1000 (WB)
p-Stat1	Immunoway	YP0249	1:1000 (WB)/1:200(IF)
Pfkp	Proteintech	13389-1-AP	1:1000 (WB)/1:200(IF)
iNOS	Affinity	AF0199	1:1000 (WB)/1:200(IF)
Arg 1	Affinity	DF6657	1:1000 (WB)/1:200(IF)
NLRP3	Affinity	DF7438	1:1000 (WB)
ASC	Affinity	DF6304	1:1000 (WB)

Table S3. Primers used in RT-qPCR analysis

Gene	Forward primer sequence	Reverse primer sequence
β -actin	GGCTGTATTCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT
IL-1 β	TGGGAAACAACAGTGGTCAGG	CCATCAGAGGCAAGGAGGAA
IL-6	TAGTCCTTCCTACCCCAATTTCC	TTGGTCCTTAGCCACTCCTTC
TNF- α	GAGTGACAAGCCTGTAGCC	CTCCTGGTATGAGATAGCAA
iNOS	CACCAAGCTGAACTTGAGCG	CGTGGCTTTGGGCTCCTC
Arg-1	CCAGAAGAATGGAAGAGTCAGTGT	GCAGATATGCAGGGAGTCACC
HMGB1	GCTGACAAGGCTCGTTATGAA	CCTTTGATTTTGGGGCGGTA
Stat1	TCACAGTGGTTCGAGCTTCAG	CGAGACATCATAGGCAGCGTG
Pfkp	CGCCTATCCGAAGTACCTGGA	CCCCGTGTAGATTCCCATGC

Table S4. Primers sequences for ChIP-qPCR

Gene	Foward	Reverse
Pfkp site1	CAAAGTGAGTTCCAGGACAGC	TTGGGGGTTTTGCTTTGTTA
Pfkp site2	AGTCTGACACCCCTCCTCC	TGATGAGCACTAAACTGGAGAA
Pfkp site3	TCAGATGTTCTCCAGTTTAGTGC	TCCTGAACTCCCATGATCAAC

Figure S1. Flow cytometry gating strategy and polarization status of M2-type macrophages.

(A) Flow cytometry gating strategy for M1 polarization of splenic macrophages in EAP mice;

(B) Flow cytometry gating strategy for M1 polarization of macrophages in iBMDM;

(C) Flow cytometry gating strategy for M2 polarization of macrophages in iBMDM;

(D-G) The effects of dsHMGB1 and Flu on M2 polarization of iBMDM. * $P < 0.05$; ** $P < 0.01$;

*** $P < 0.001$.

Figure S2. si-Pfkp inhibits dsHMGB1-induced M1 macrophage polarization.

(A-C) The expression of Pfkp in the si-NC group and the si-Pfkp group was detected by RT-

qPCR and Western blot. (D) The expression of IL-1 β , IL-6, TNF- α , iNOS and Arg1 at RNA

level between si-NC+dsHMGB1 and si-Pfkp +dsHMGB1 groups based on macrophage; (E-F)

The protein level of iNOS and Arg1 between the si-NC+dsHMGB1 and si-Pfkp +dsHMGB1

groups was detected by western blot; (G-H) Flow cytometry was used to detect the M1

polarization of macrophages between si-NC+dsHMGB1 and si-Pfkp+dsHMGB1 groups;

(I)Lactate levels between the si-NC+dsHMGB1 and si-Pfkp +dsHMGB1 groups; (J) 2-NBDG

was used to measure glucose uptake between the si-NC+dsHMGB1 and si-Pfkp +dsHMGB1

groups. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

Figure S3. si-Jak2 inhibits dsHMGB1-induced M1 macrophage polarization.

(A-C) The expression of Jak2 in the si-NC group and the si-Jak2 group was detected by RT-

qPCR and Western blot. (D) The expression of IL-1 β , IL-6, TNF- α , iNOS and Arg1 at RNA

level between si-NC+dsHMGB1 and si-Jak2+dsHMGB1 groups based on macrophage; (E-F) The protein level of p-Stat1, Stat1, Pfkp, iNOS and Arg1 between the si-NC+dsHMGB1 and si-Jak2+dsHMGB1 groups was detected by western blot; (G-H) Flow cytometry was used to detect the M1 polarization of macrophages between si-NC+dsHMGB1 and si-Jak2+dsHMGB1 groups; (I) Lactate levels between the si-NC+dsHMGB1 and si-Jak2+dsHMGB1 groups; (J) 2-NBDG was used to measure glucose uptake between the si-NC+dsHMGB1 and si-Jak2+dsHMGB1 groups. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

Figure S4. si-Stat1 inhibits dsHMGB1-induced M1 macrophage polarization.

(A-C) The expression of Stat1 in the si-NC group and the si-Stat1 group was detected by RT-qPCR and Western blot; (D) The expression of IL-1 β , IL-6, TNF- α , iNOS and Arg1 at RNA level between si-NC+dsHMGB1 and si-Stat1+dsHMGB1 groups based on macrophage; (E-F) The protein level of Pfkp, iNOS and Arg1 between the si-NC+dsHMGB1 and si-Stat1+dsHMGB1 groups was detected by western blot; (G-H) Flow cytometry was used to detect the M1 polarization of macrophages between si-NC+dsHMGB1 and si-Stat1+dsHMGB1 groups; (I) Lactate levels between the si-NC+dsHMGB1 and si-Stat1+dsHMGB1 groups; (J) 2-NBDG was used to measure glucose uptake between the si-NC+dsHMGB1 and si-Stat1+dsHMGB1 groups. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

Figure S1

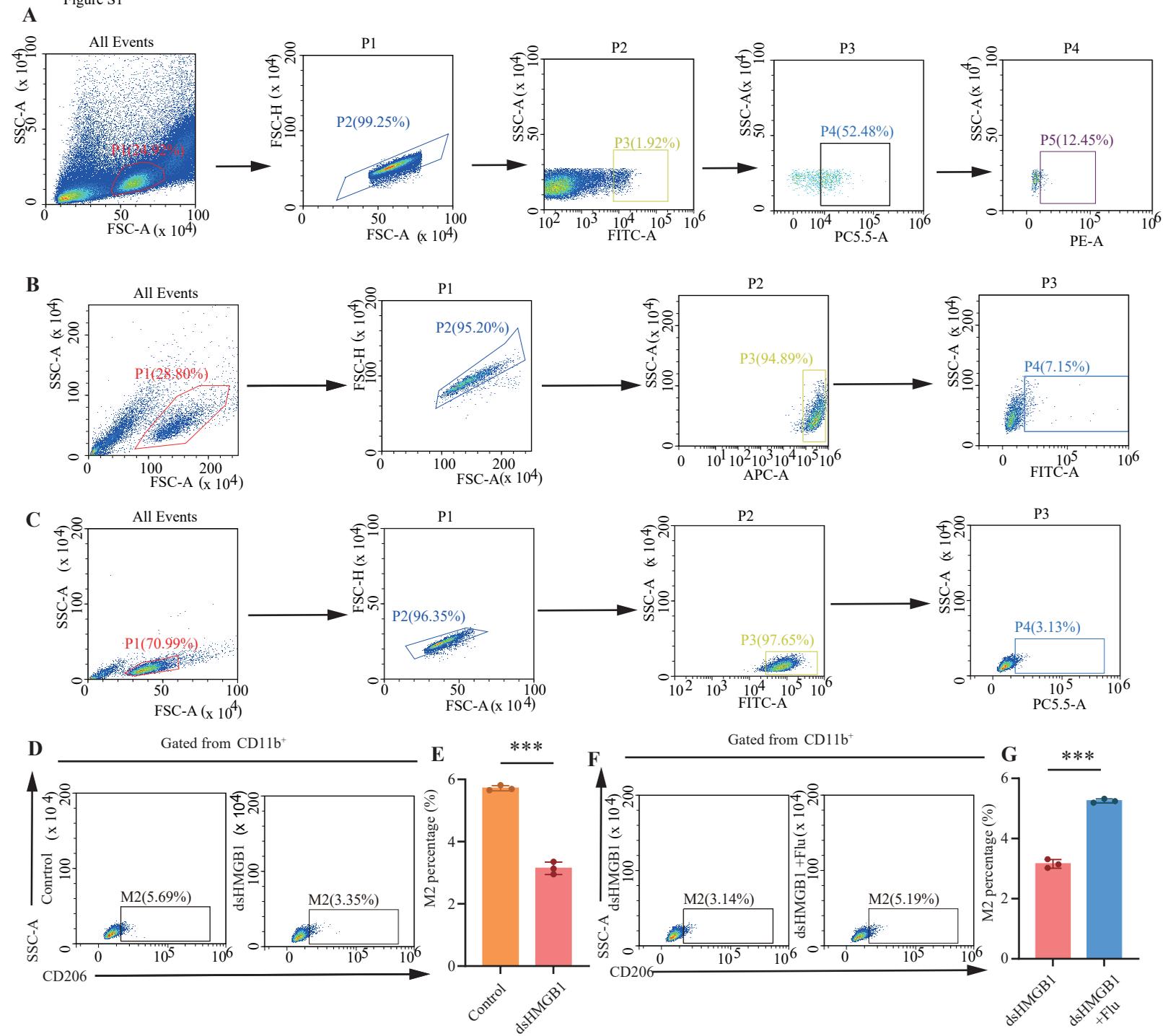


Figure S2

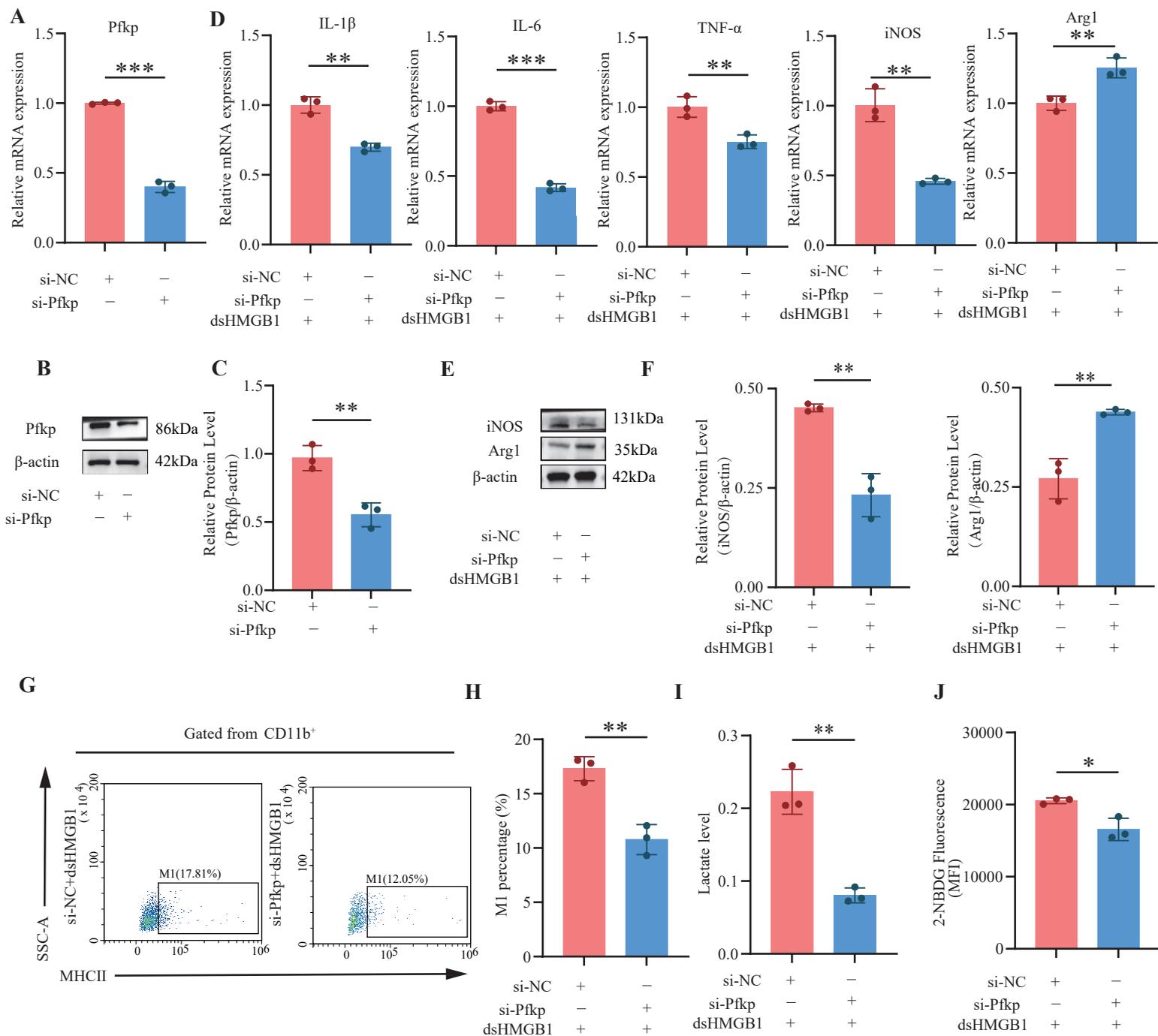


Figure S3

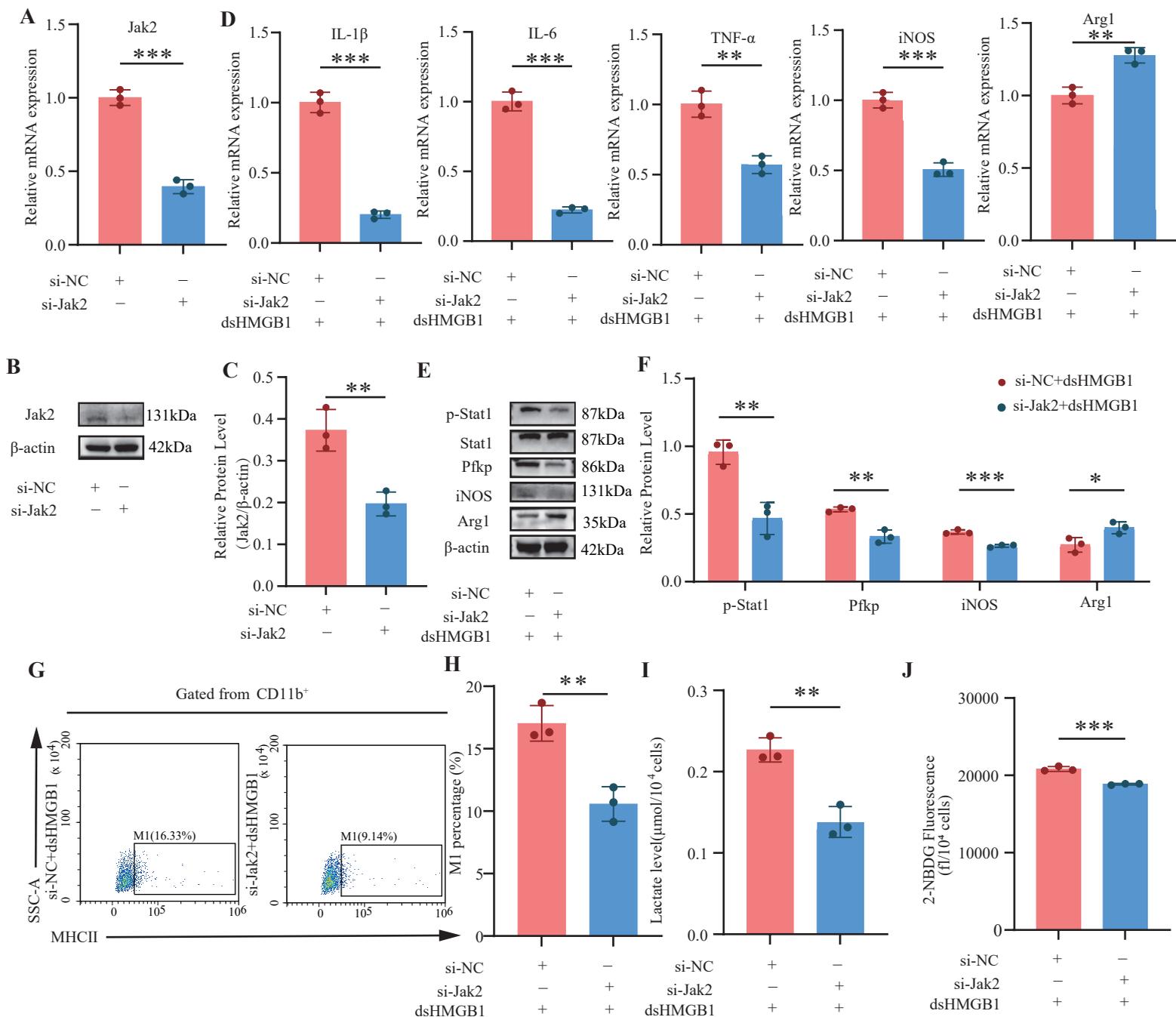


Figure S4

