

Supplement Material

PCR protocol and sequence information of PCR primers

The PCR cycling conditions were: 1 cycle pre-denaturation at 95 °C for 10min, followed by 40 cycles of denaturation at 95 °C for 10 s, annealing at 60 °C for 30s, and extension at 72 °C for 30s. The PCR products were dissociated after amplification: 95°C degeneration for 15s, 60°C annealing for 1min, then slow heating to 95°C for 30s, and finally 15s at 60°C.

Three duplicate wells were set in each group and experiments were repeated 6 times to take the average value. The results were processed by 7500 System Software V2.3 (Applied Biosystems, CA, USA) and beta-actin served as the internal reference. Relative mRNA expression was calculated using the $2^{-\Delta\Delta Ct}$ method with the formula, $\Delta\Delta Ct = (Ct_{\text{target gene}} - Ct_{\text{reference gene}})_{\text{experiment group}} - (Ct_{\text{target gene}} - Ct_{\text{reference gene}})_{\text{control group}}$.

The primers were designed using NCBI Primer-BLAST and verified by Blast, which were then synthesized by Shanghai Shengong Bioengineering Co., Ltd. The primer sequences are available below.

Primer Name	Primer Sequence	Number of Bases
KLF4	F: 5'-TTCCAACCTCGCTAACCCACC-3'	20
	R: 5'-TTGATGTCCGCCAGGTTGAA-3'	20
β-actin	F: 5'-TAGGCGGACTGTTACTGAGC-3'	20
	R: 5'-TGCTCCAACCAACTGCTGTC-3'	20
iNOS	F: 5'-GTTCTCAGCCCAACAATACAAGA-3'	23

	R: 5'-GTGGACGGGTCGATGTCAC-3'	19
Arg-1	F: 5'-CAAGACAGGGCTCCTTTCAG-3'	20
	R: 5'-CTTGGGAGGAGAAGGCGTTT-3'	20
TNF-α	F: 5'-ATAGCTCCCAGAAAAGCAAGC-3'	21
	R: 5'-CACCCCGAAGTTCAGTAGACA-3'	21
TGF-β	F: 5'-CTTCAATACGTCAGACATTCGGG-3'	23
	R: 5'-GTAACGCCAGGAATTGTTGCTA-3'	22
IL-1β	F: 5'-GCCTCGTGCTGTCGGACCCATAT-3'	23
	R: 5'-TCCTTTGAGGCCCAAGGCCACA-3'	22
IL-10	F: 5'-CTTACTGACTGGCATGAGGATCA-3'	23
	R: 5'-GCAGCTCTAGGAGCATGTGG-3'	20

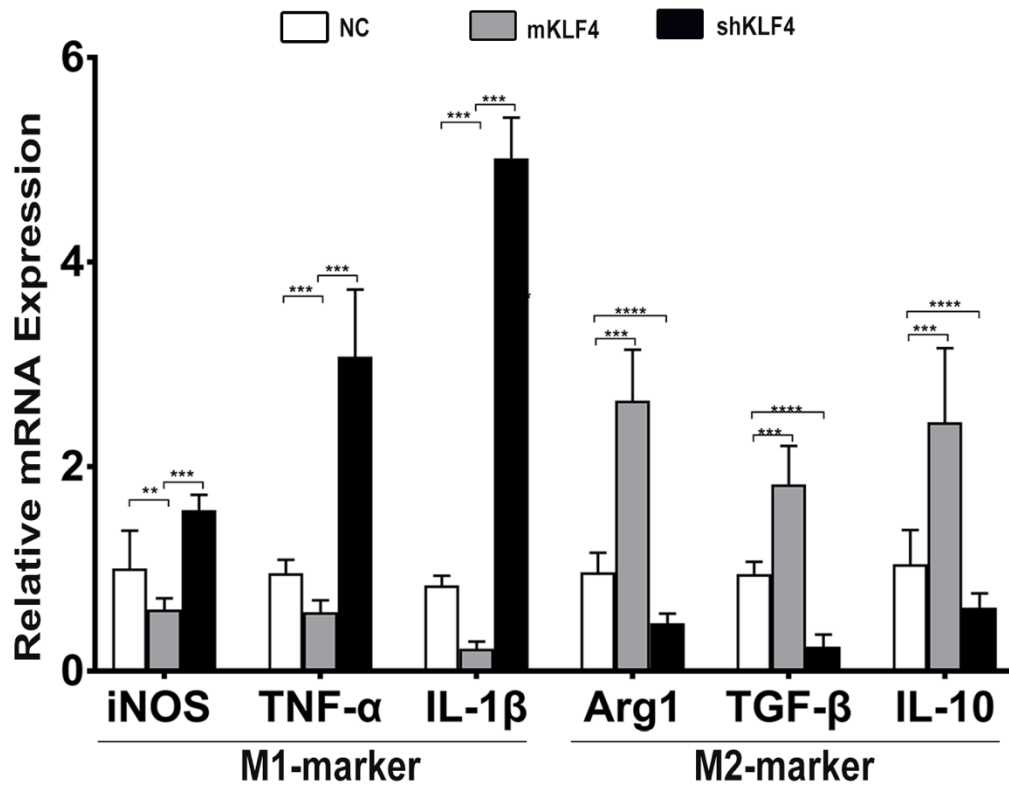


Figure S1: Relative marker mRNA expression of M1 and M2 subsets in different cell lines after 12h under regular culture conditions measured by QT-PCR. **, p<0.01; ***, p<0.001.

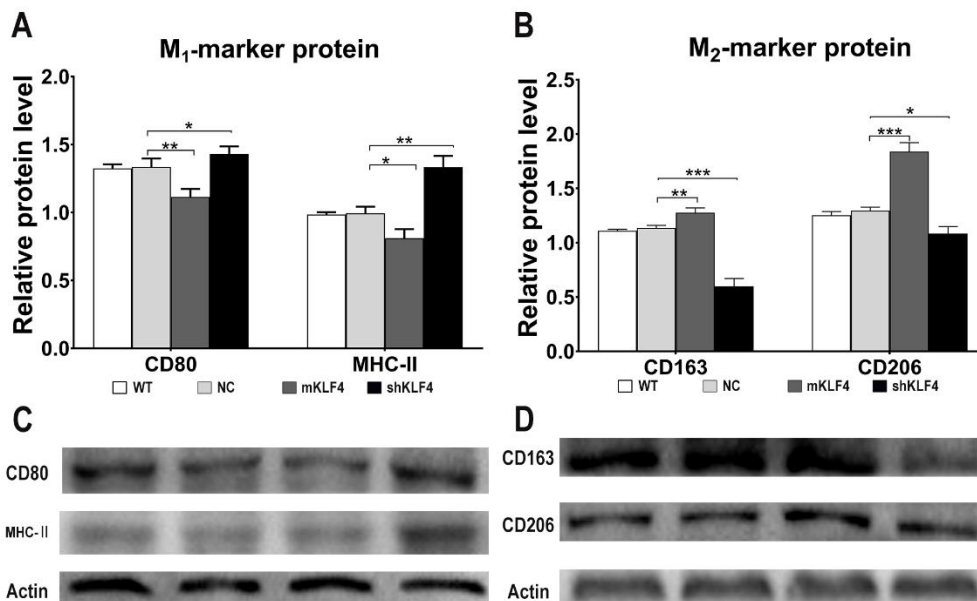


Figure S2: Marker protein expression of M1 and M2 subsets in different cell lines after 24h under regular culture conditions measured by western blot. *, $p<0.05$; **, $p<0.01$; ***, $p<0.001$.

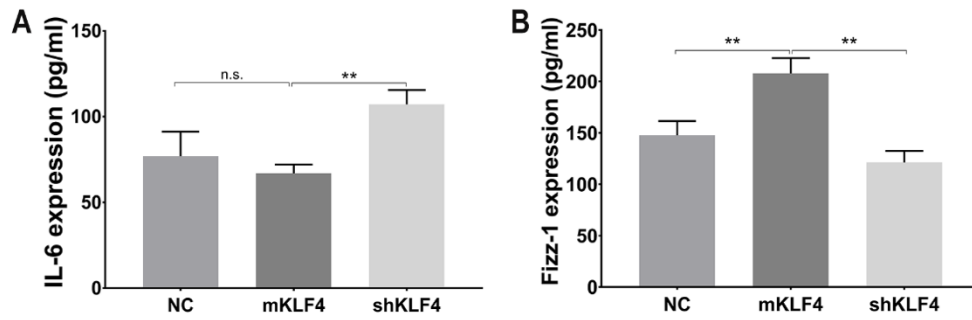


Figure S3: Marker factors expression of M1(IL-6) and M2(Fizz-1) subsets in different cell lines after 24h under regular culture conditions measured by ELISA. *, $p<0.05$; **, $p<0.01$; ***, $p<0.001$.

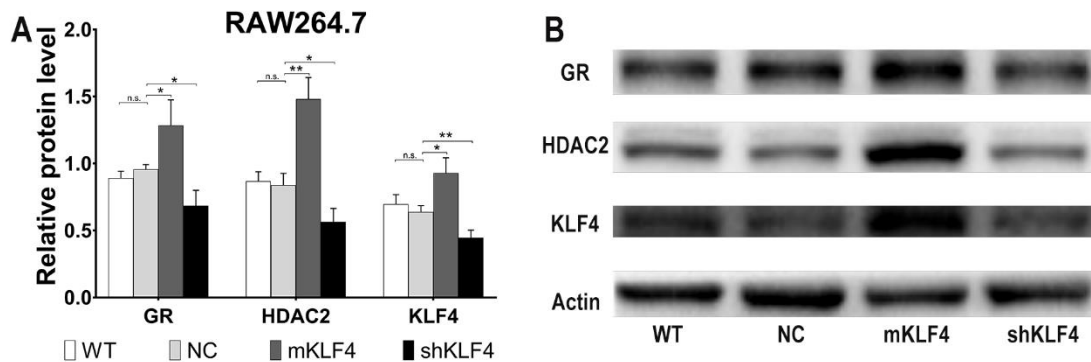


Figure S4: Western blot result of marker protein of GR pathway and KLF4 in four different groups after 24h under regular culture conditions. *, $p<0.05$; **, $p<0.01$; ***, $p<0.001$.

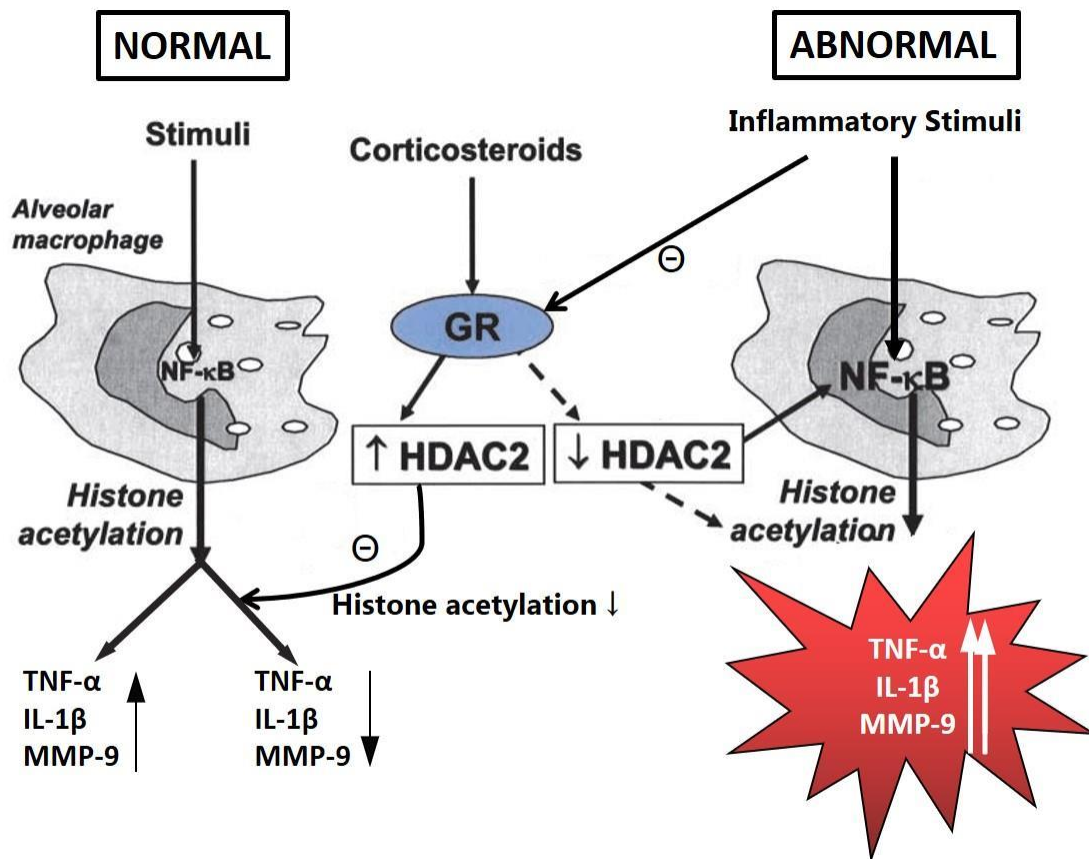


Figure S5: The effect of corticosteroids on NF- κ B pathways under different conditions. GR: glucocorticoid receptor, HDAC2: histone acetylation 2.