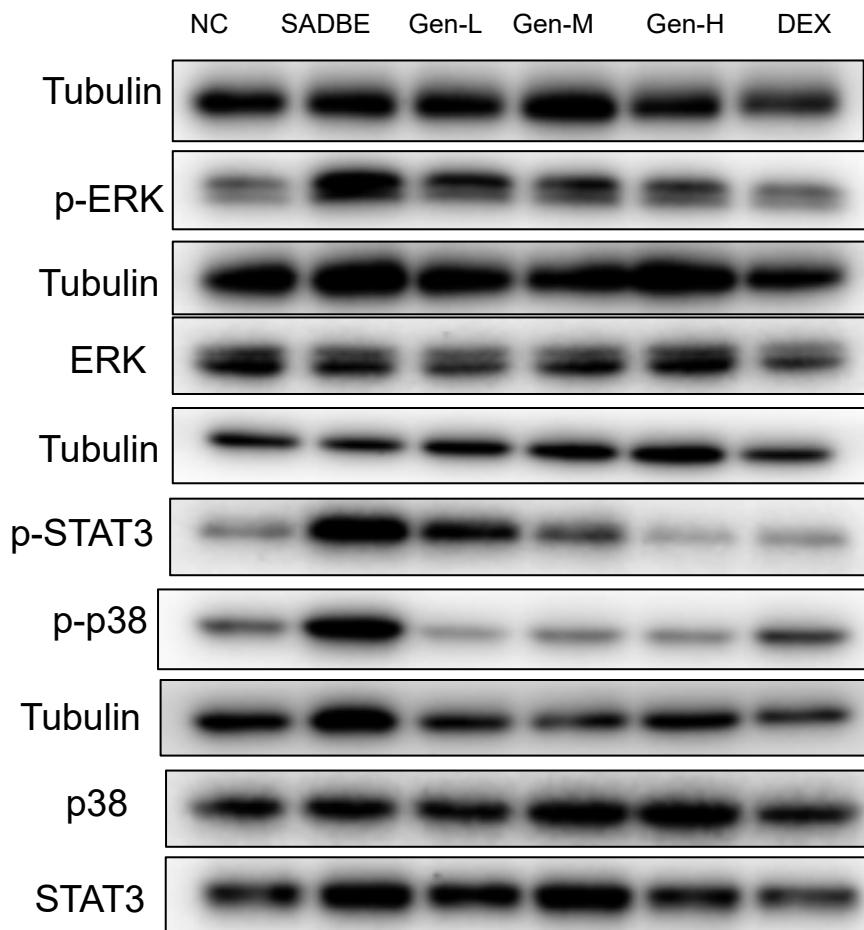
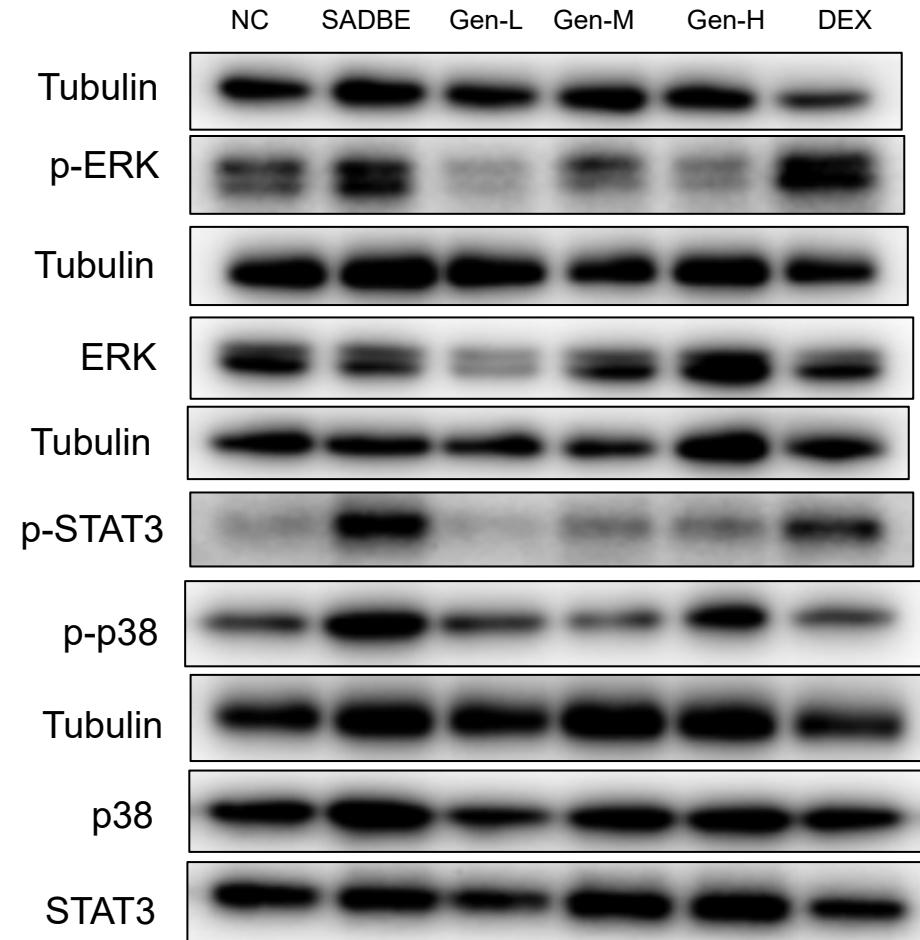


Supplementary data1 The data of the original western blots images**A****B**

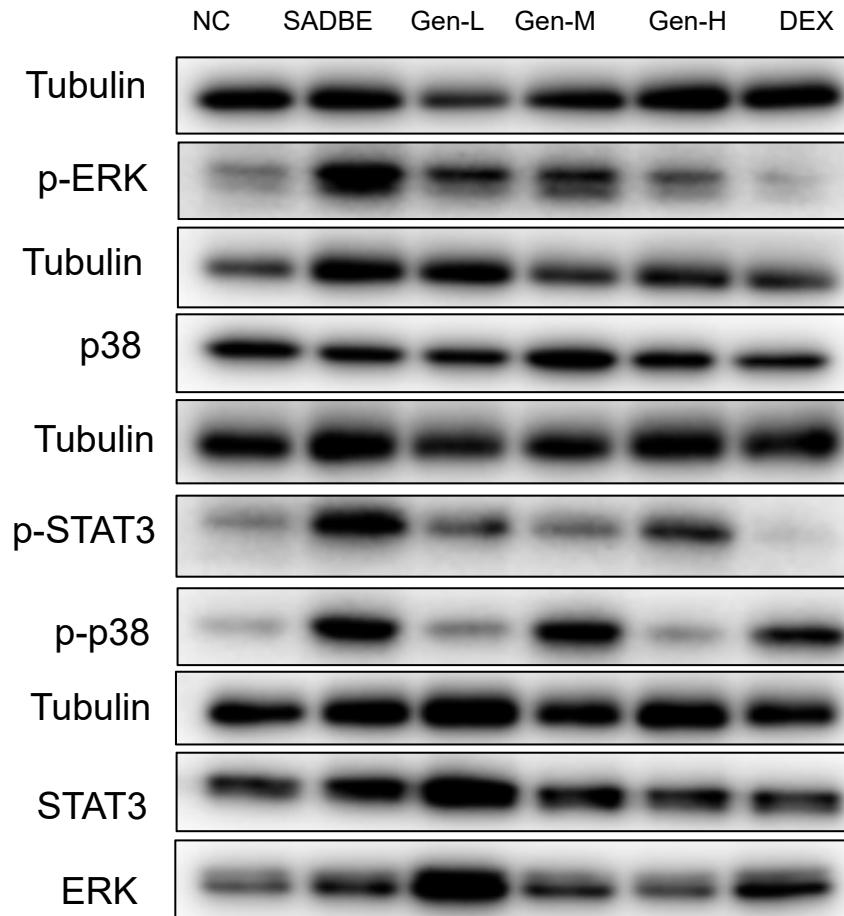
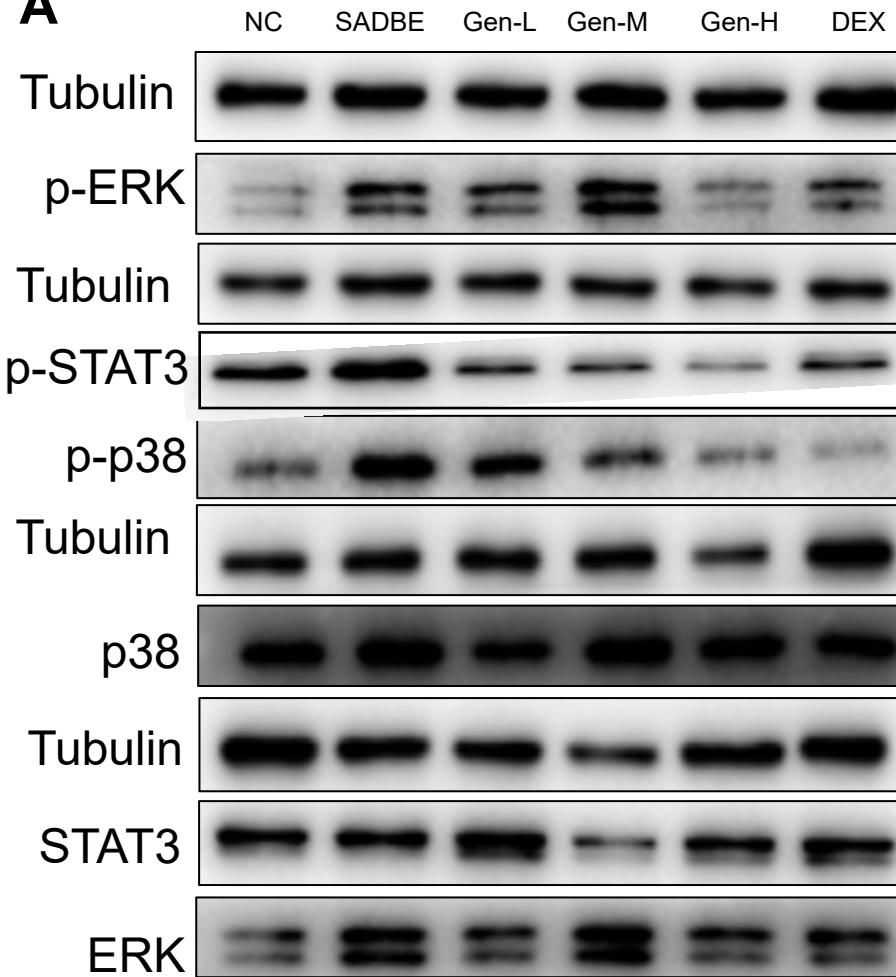
C

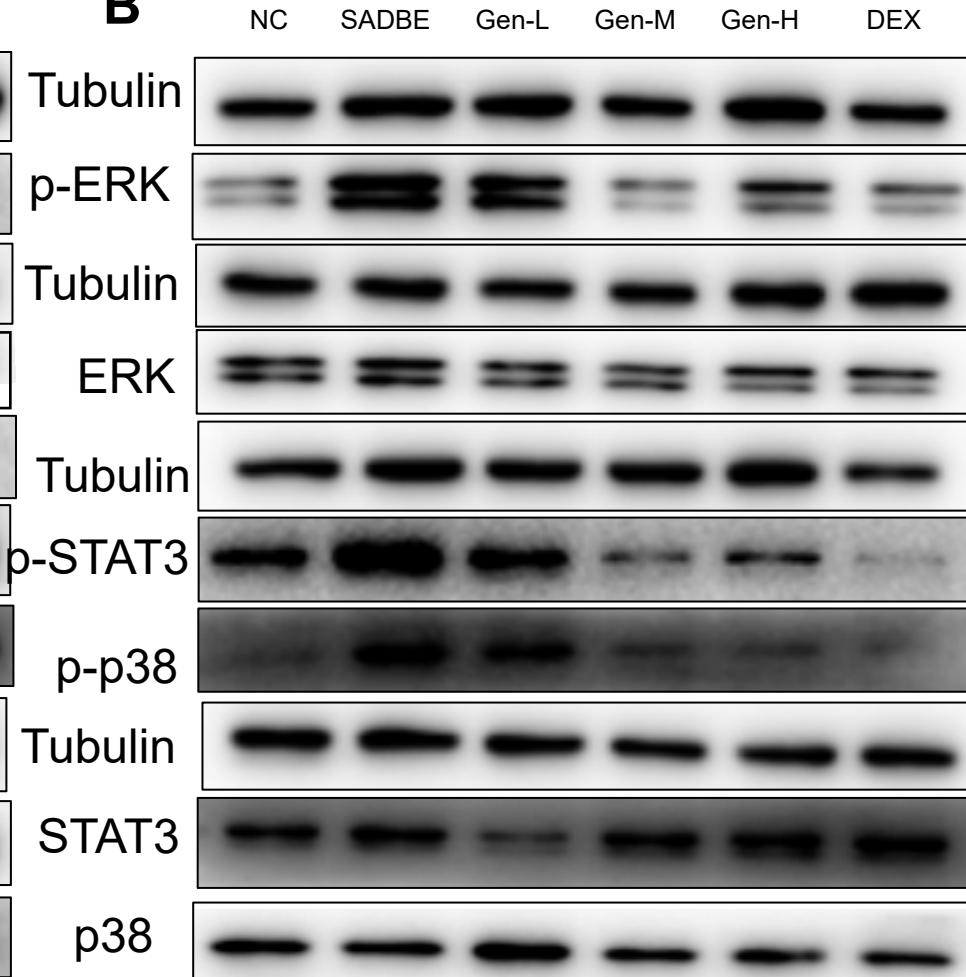
Fig. S1 The original western blot images of **Fig.5A** in the manuscript.(A,B,C)

Supplementary data2 The data of the original western blots images

A



B



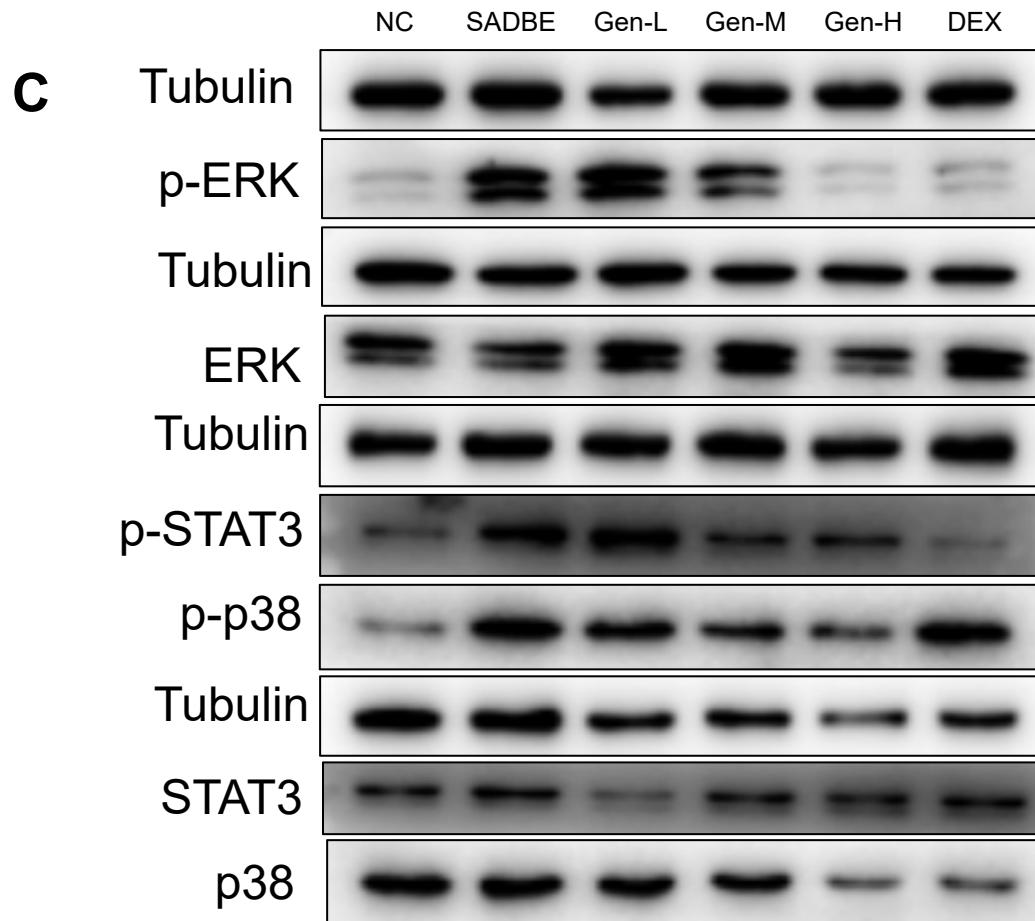
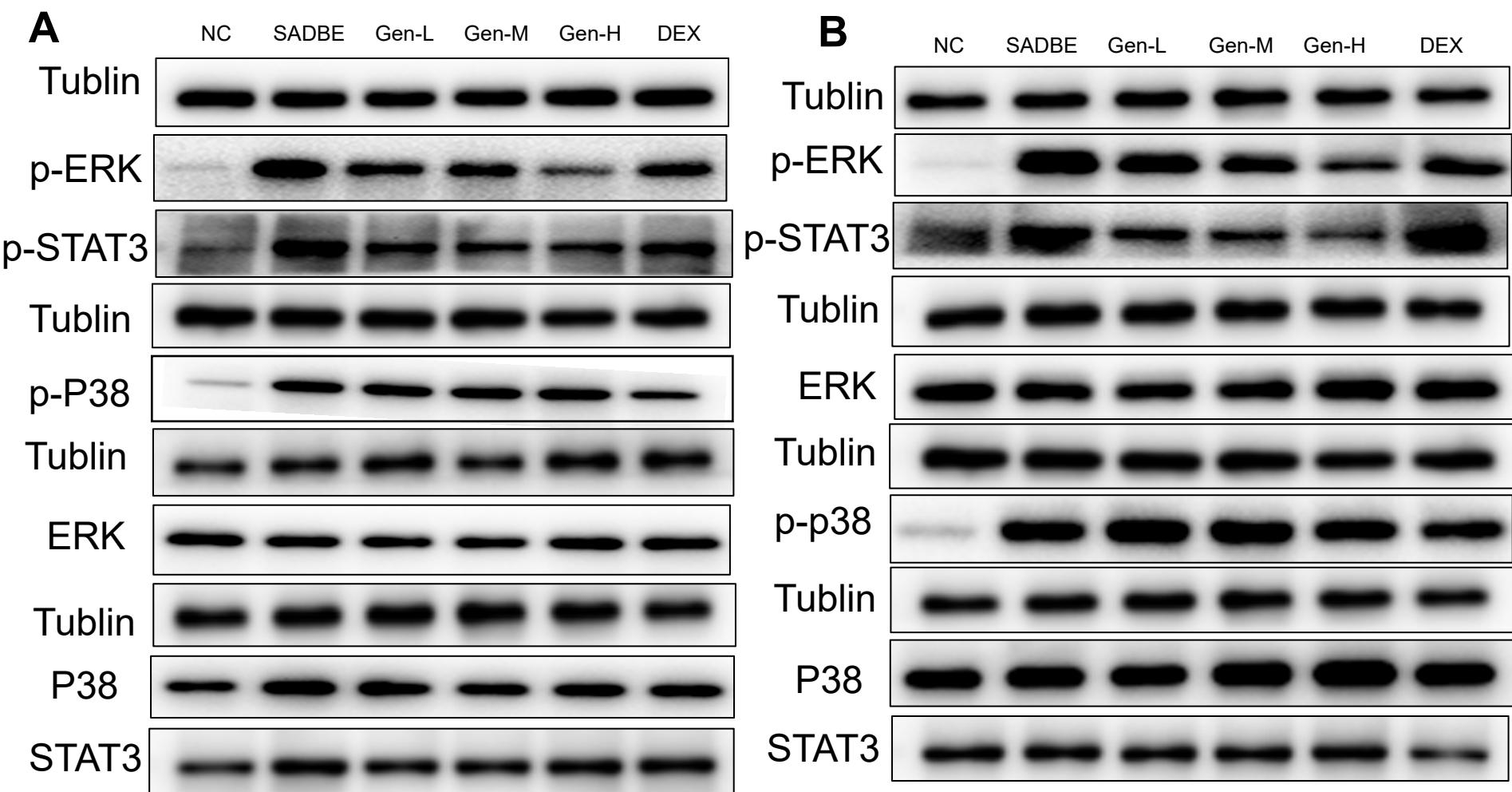


Fig. S2 The original western blot images of **Fig.6A** in the manuscript.(A,B,C)

Supplementary data3 The data of the original western blots images



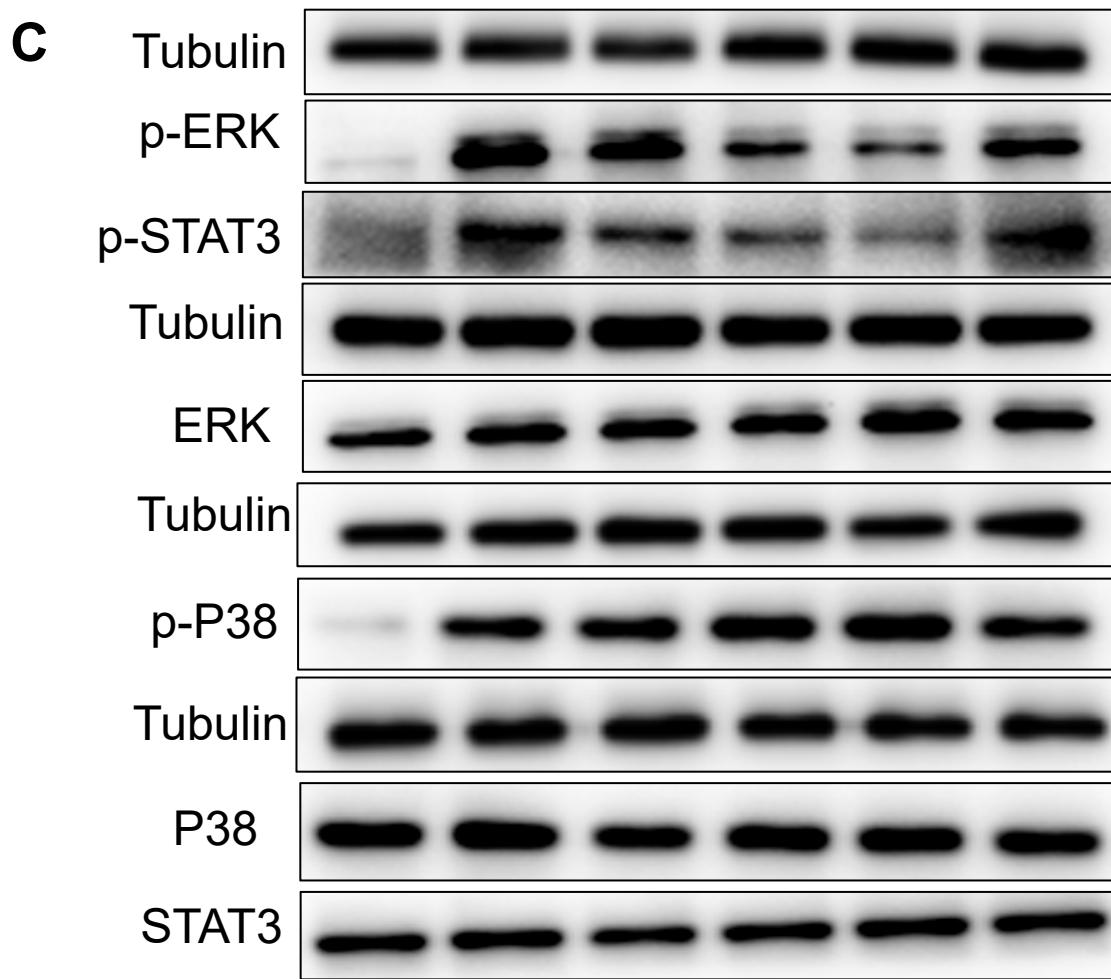
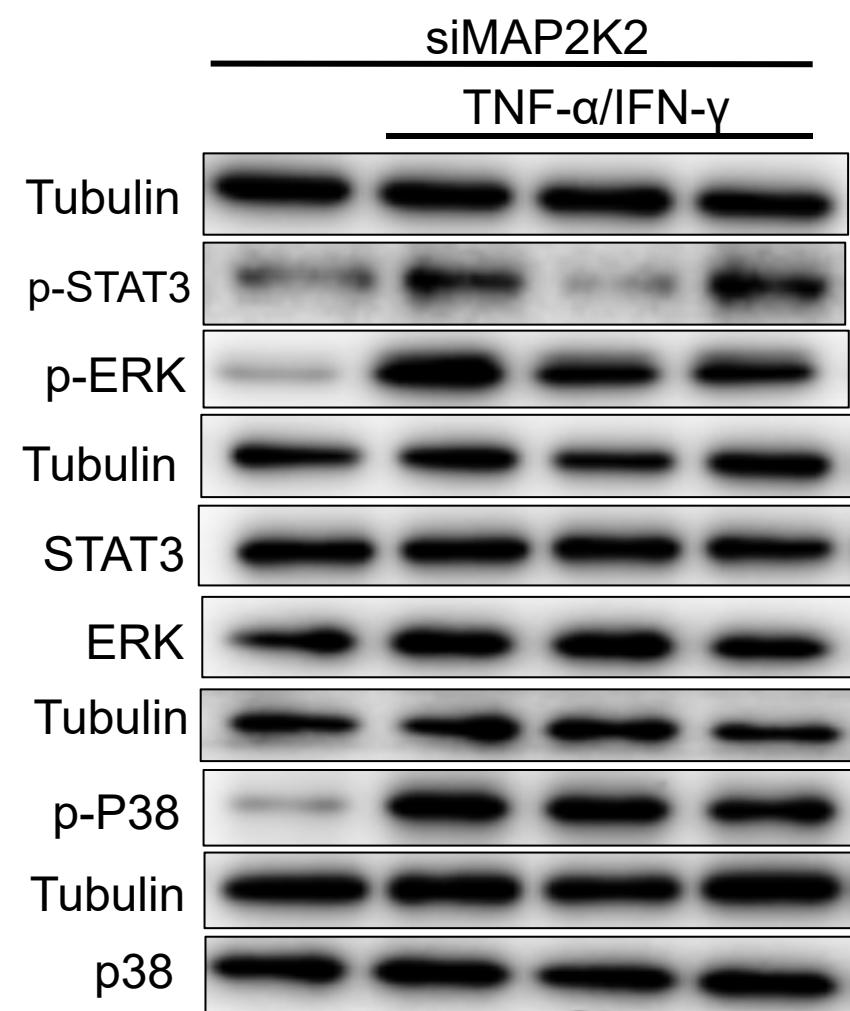
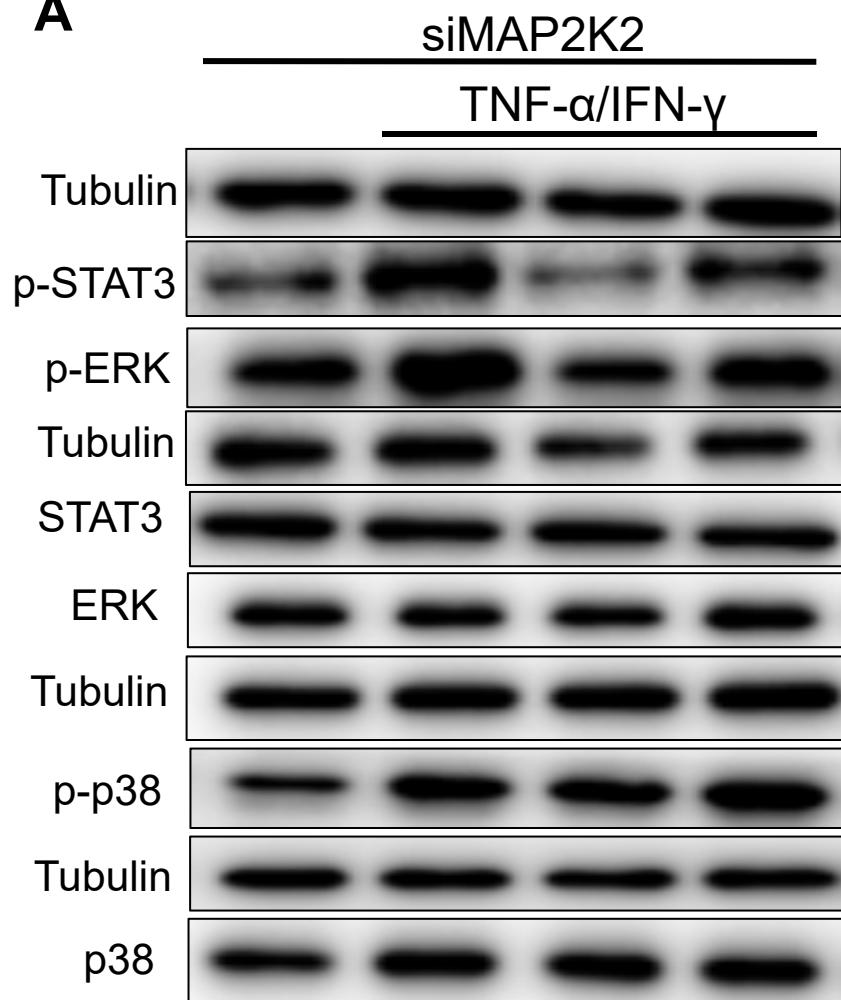
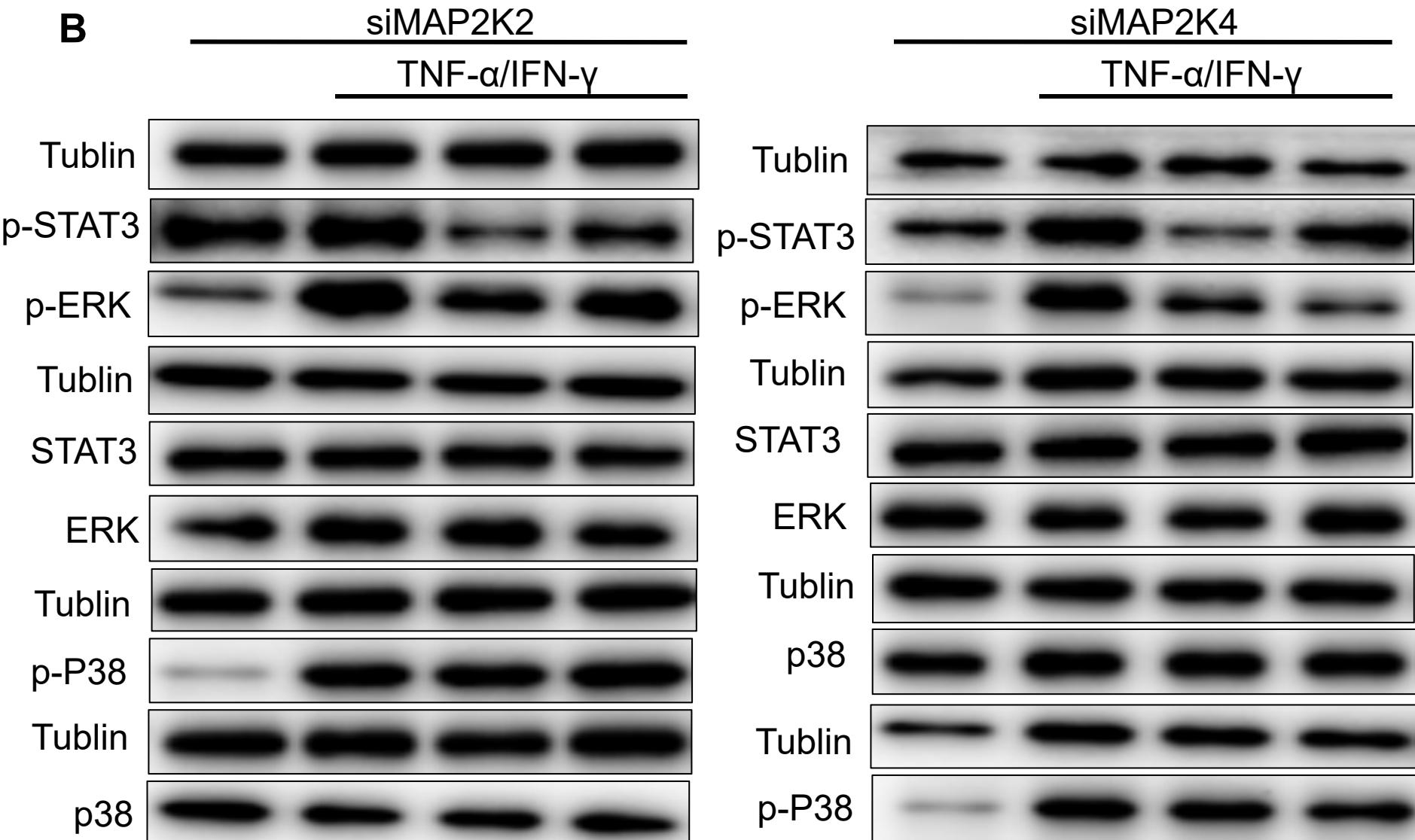


Fig. S3 The original western blot images of **Fig. 7C** in the manuscript.(A,B,C)

Supplementary data4 The data of the original western blots images

A



B

C**siMAP2K2**TNF- α /IFN- γ

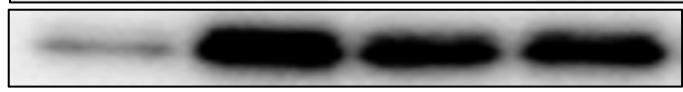
Tubulin



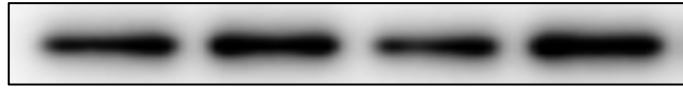
p-STAT3



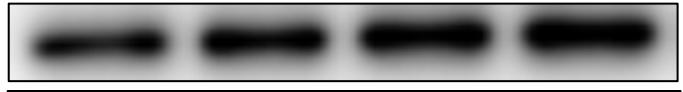
p-ERK



Tubulin



STAT3



ERK



Tubulin



p-P38



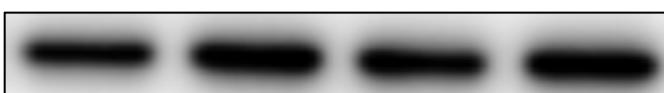
Tubulin



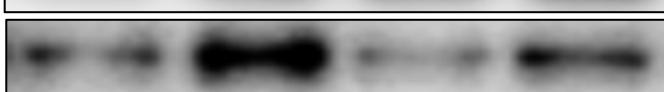
p38

**siMAP2K4**TNF- α /IFN- γ

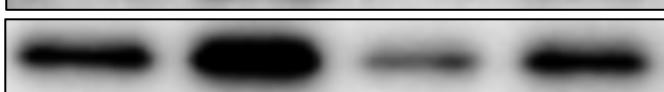
Tubulin



p-STAT3



p-ERK



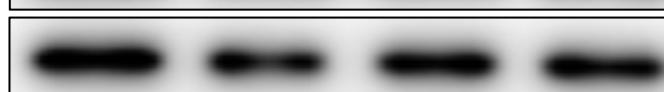
Tubulin



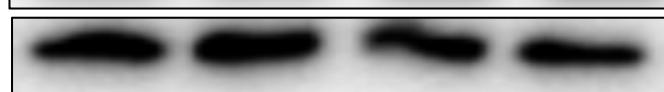
STAT3



ERK



Tubulin



p-P38



Tubulin



p38

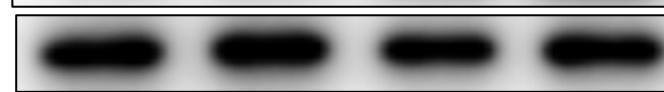
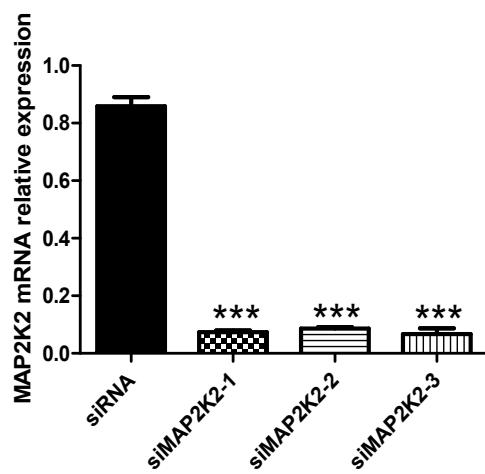


Fig. S4 The original western blot images of **Fig. 8A** in the manuscript.(A,B,C)

Supplementary data5 The data of the original western blots images

A



B

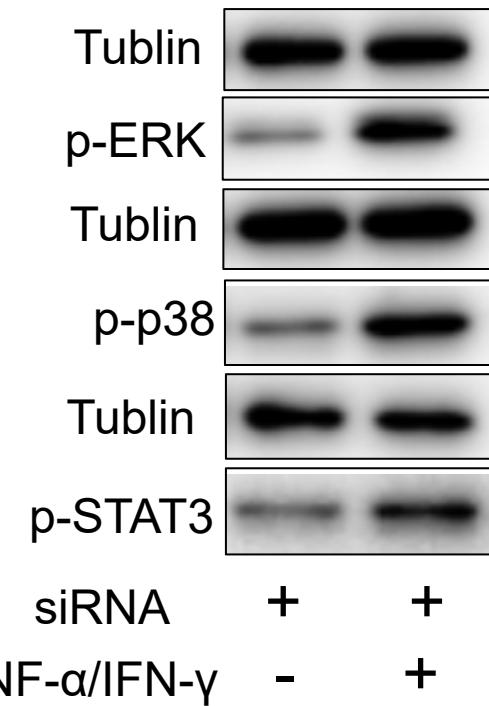
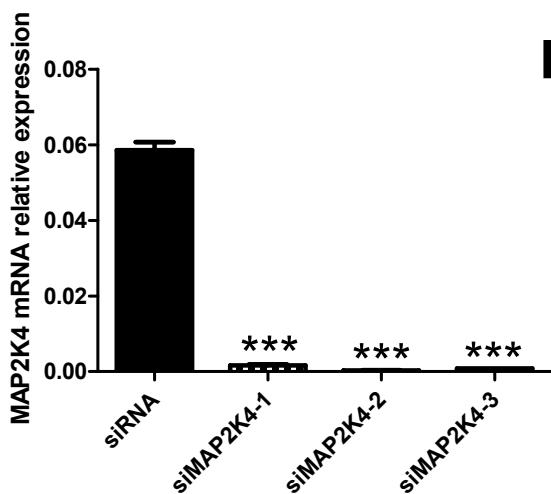


Fig. S5 (A) Relative mRNA levels of MAP2K2 and MAP2K4 in HaCaT cells transfected with the indicated siRNA. (B) The western blot images of p-ERK, p-p38 and p-STAT3 transfected in siRNA

Supplementary data6

A

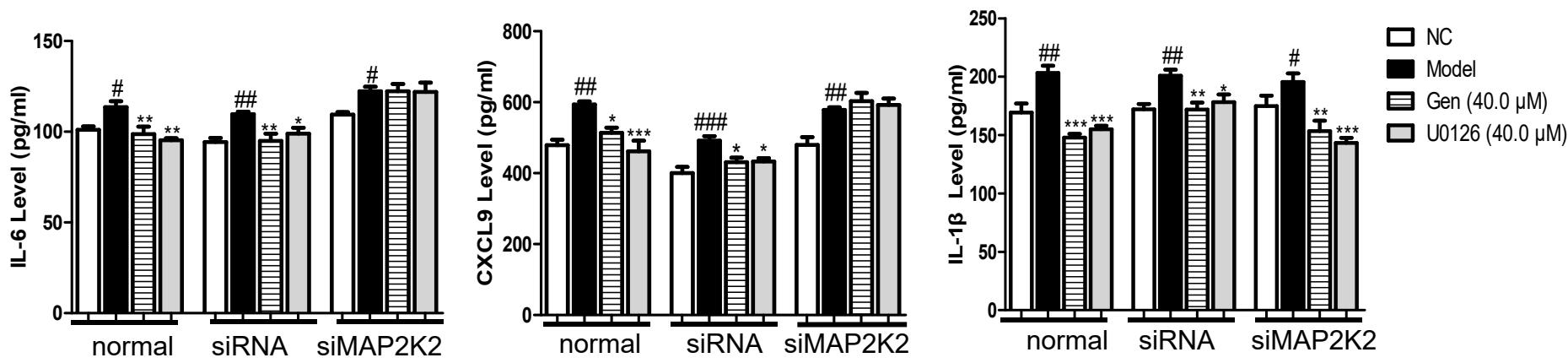


Fig. S6 HaCat cells were transfected with 50 nM control siRNA, siMAP2K2, for 72 h, and then treated with genistein (40 μM) and U0126 (40 μM) for 1 h, followed by stimulating with TNF-α/IFN-γ for another 16 h. The expression of CXCL9, IL-6 and IL-1β in supernatant were measured.