

Paeoniflorin elevates the expression of SOCS3 in macrophages to prevent MIA-induced osteoarthritis in mice

Changlin Sun^{1*}, Xiuting Qi^{1*}, Xinmiao Qin^{1*}, Wen Fan^{1*}, Zijiao Tao², Liang Hu¹, Lai Jin¹,

Chengyong Gu^{3✉}, Wentao Liu^{1✉}, Li Zhang^{4✉}

¹ Department of Pharmacology, School of Basic Medical Sciences, Nanjing Medical University, Nanjing 211166, China

² International Healthcare Center, Sir Run Run Hospital, Nanjing Medical University, China

³ Department of Anesthesiology, the Affiliated Suzhou Hospital of Nanjing Medical University, Suzhou Municipal Hospital, Gusu School, Nanjing Medical University, Suzhou, China.

⁴ Department of Anesthesiology, Children's Hospital of Nanjing Medical University, Nanjing 210029, Jiangsu Province, China

✉Address correspondence to:

Li zhang, Department of Anesthesiology, Children's Hospital of Nanjing Medical University, Nanjing 210029, Jiangsu Province, China, e-mail: drzhangli@njmu.edu.cn

Chengyong Gu, PhD, Department of Anesthesiology, the Affiliated Suzhou Hospital of Nanjing Medical University, Suzhou Municipal Hospital, Gusu School, Nanjing Medical University, Suzhou, China, e-mail: gcygcy1979@163.com

Wentao Liu, PhD, Department of Pharmacology, School of Basic Medical Sciences, Nanjing Medical University, Nanjing 211166, China, Tel: +86 02586869407, e-mail: painresearch@njmu.edu.cn

Figure1.B



Brightness+1
SOCS3
30KD



Figure1.C



MMP-9
90KD

β-actin
43KD

Brightness+80
MMP-9
90KD



Figure1.D



p-Axl
130KD

β-actin
43KD

Brightness+80
p-Axl
130KD



p-MerTK
98KD

β-actin
43KD

Gas6
69KD



Brightness+80
Gas6
69KD



Figure1.G



Protein S
55KD

β-actin
43KD

Figure3.A



Figure3.B

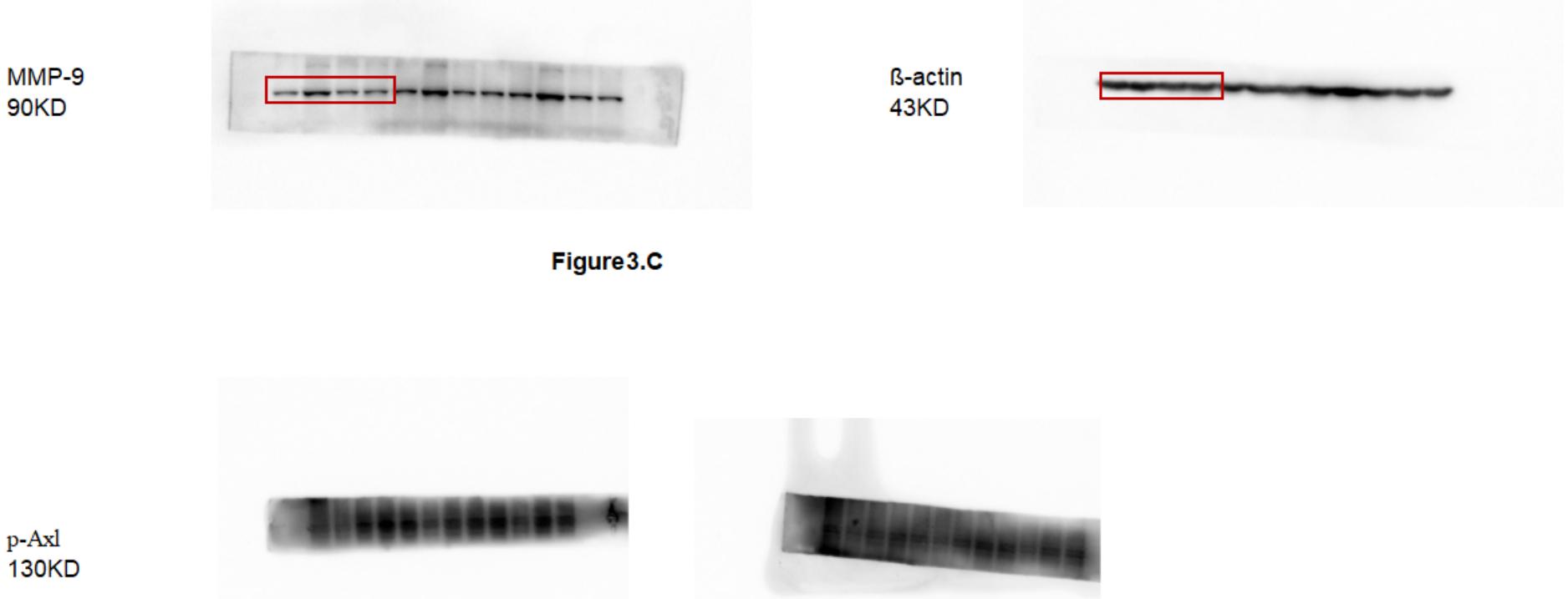


Figure3.C

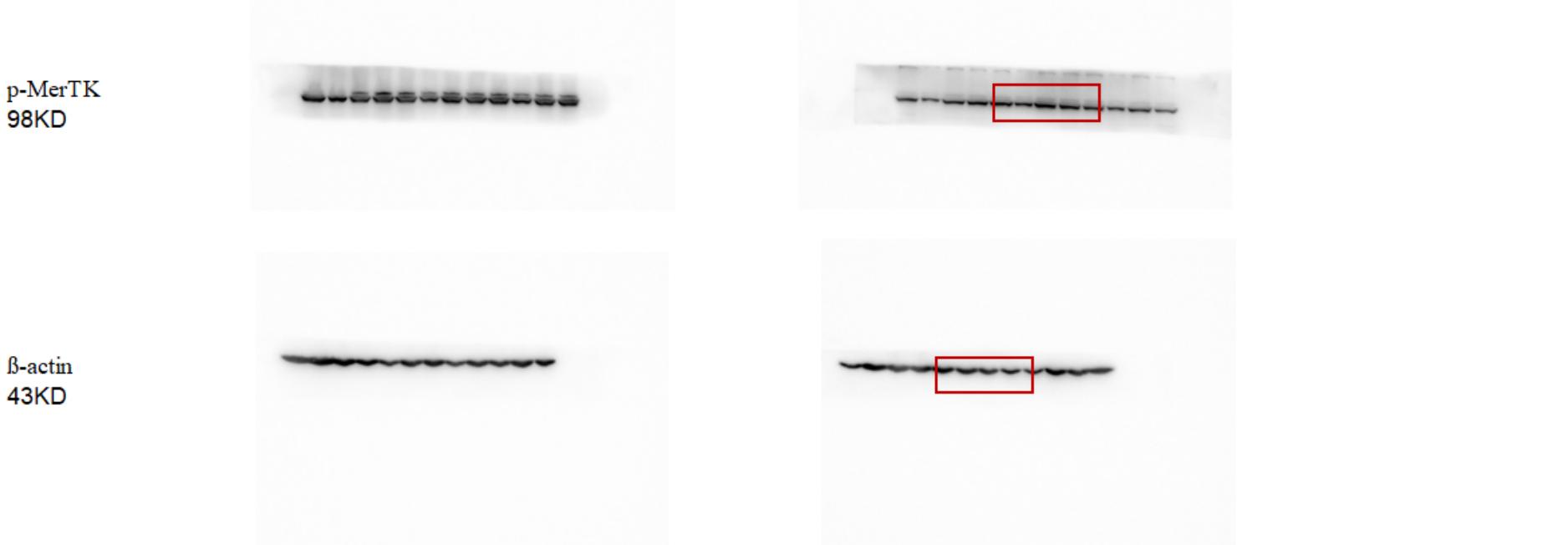
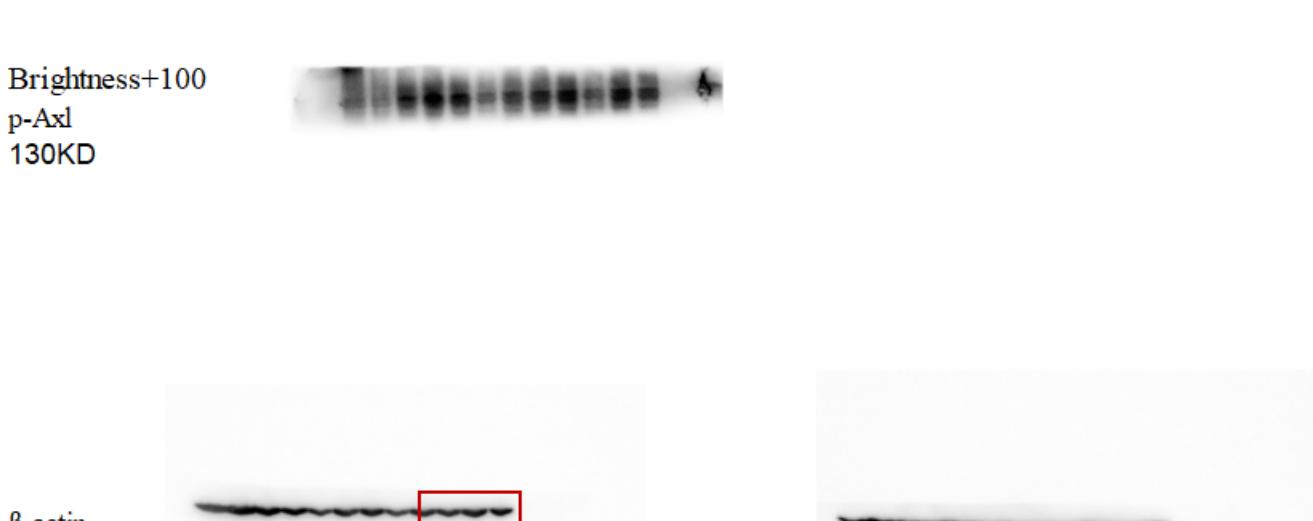


Figure3.D



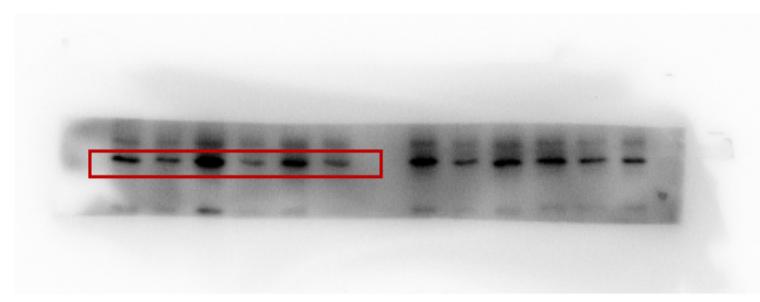
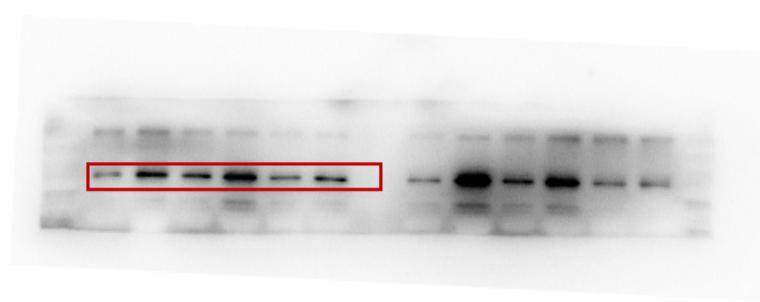
Figure3.E



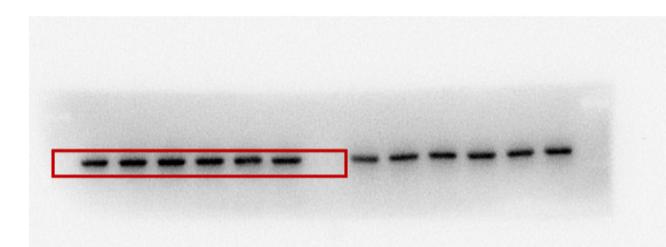
Figure3.F



Figure4.A



SOCS3
32KD



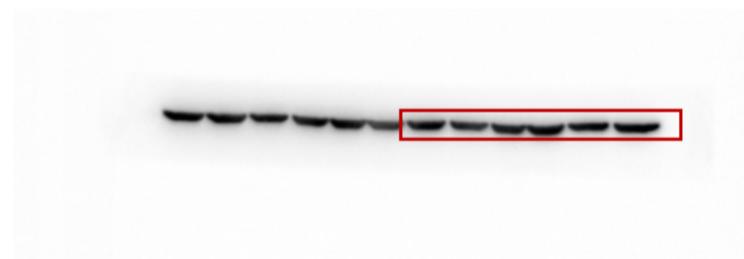
β-actin
43KD

Figure4.F



β-actin
43KD

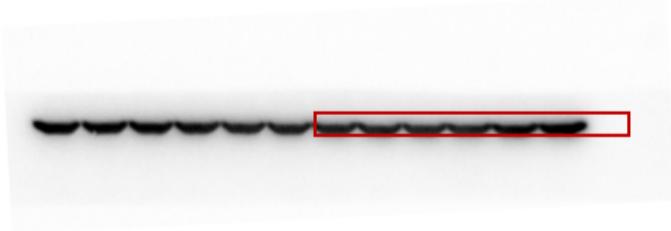
Figure4.G



β-actin
43KD

MMP9
90KD

Figure4.H



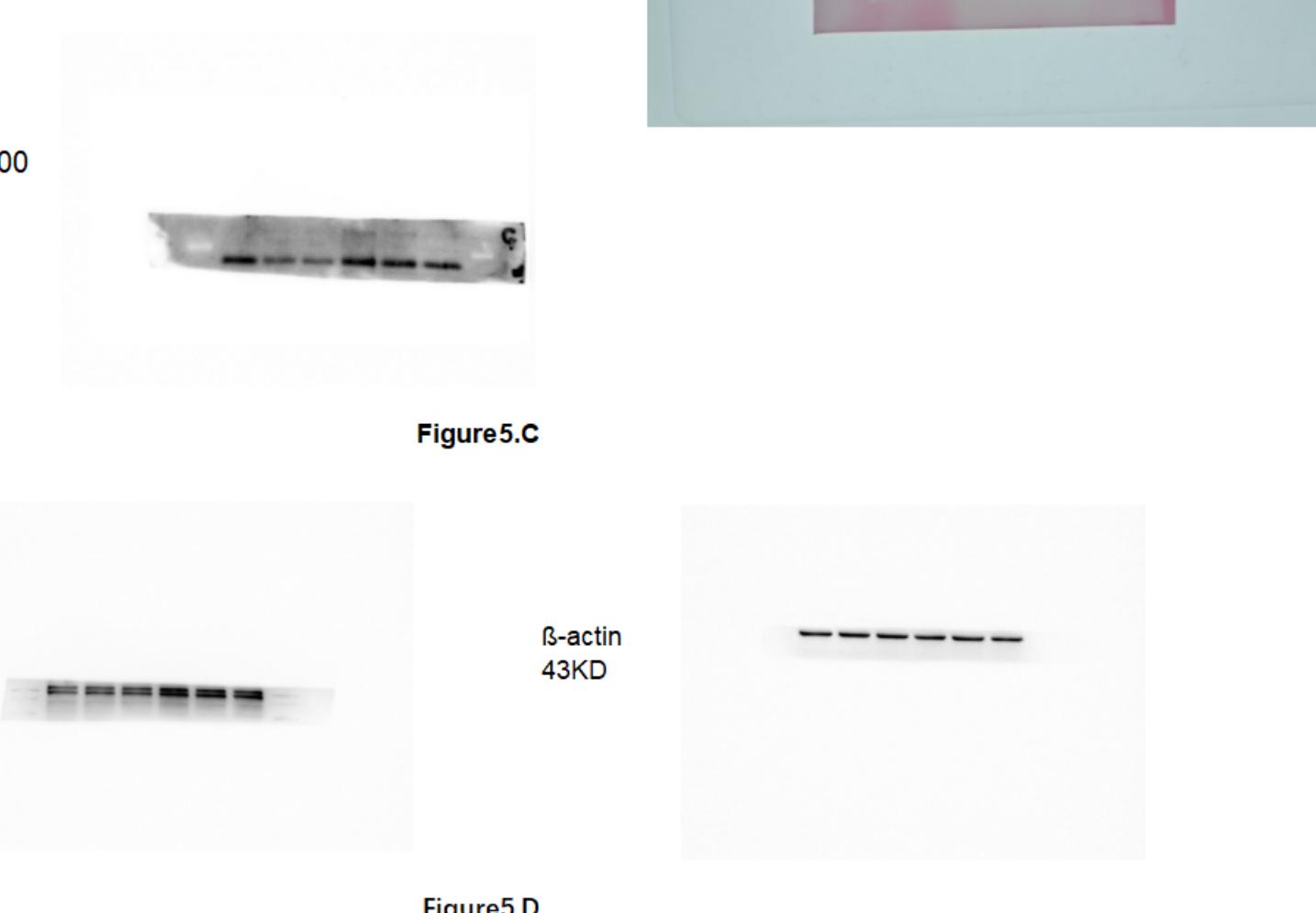
β-actin
43KD

p-p38
38KD

Figure 5



54



— — —

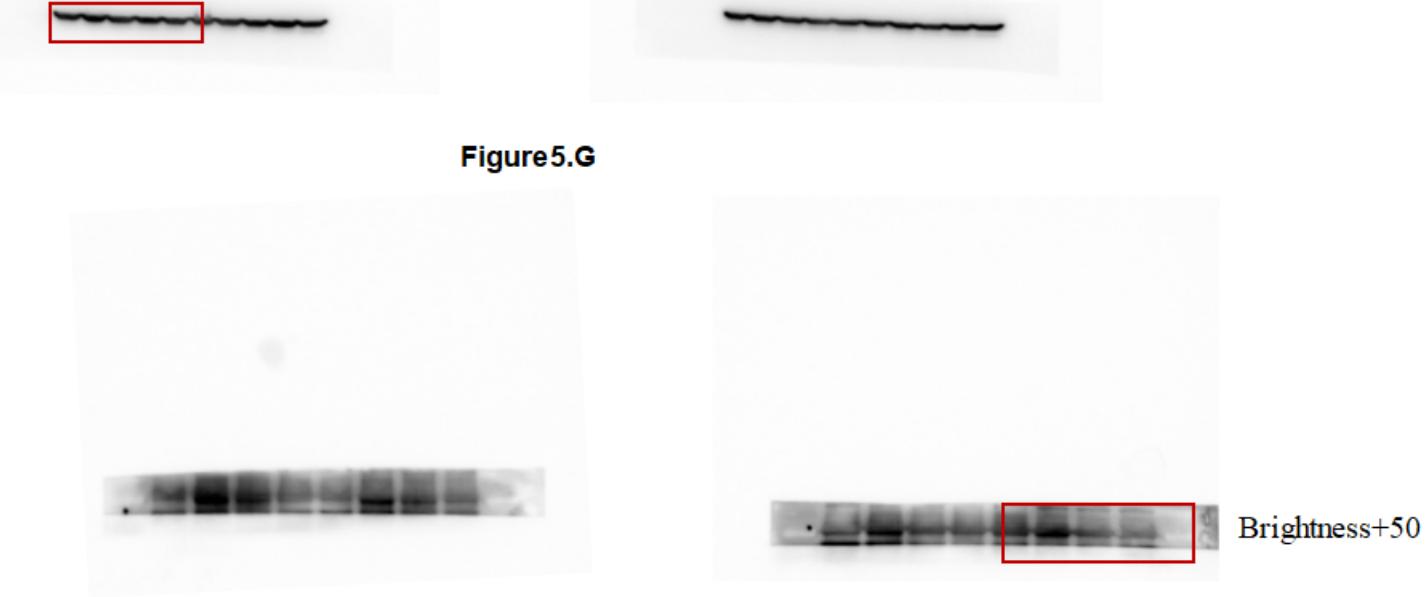
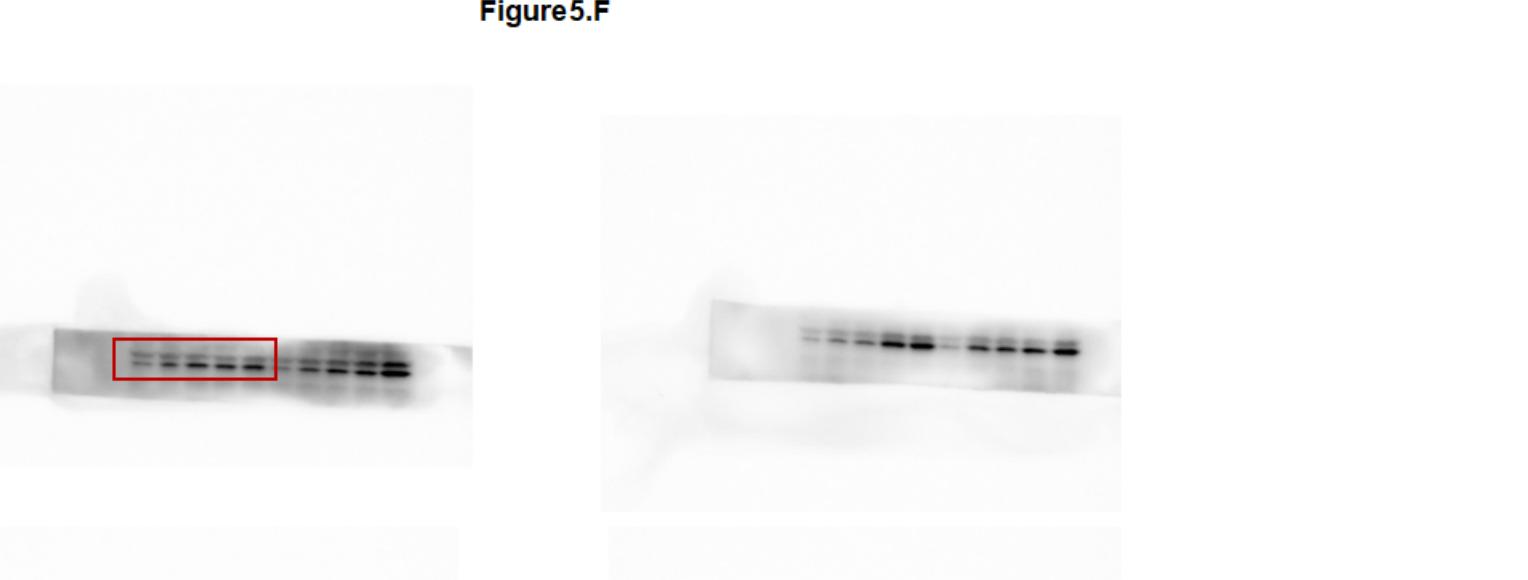
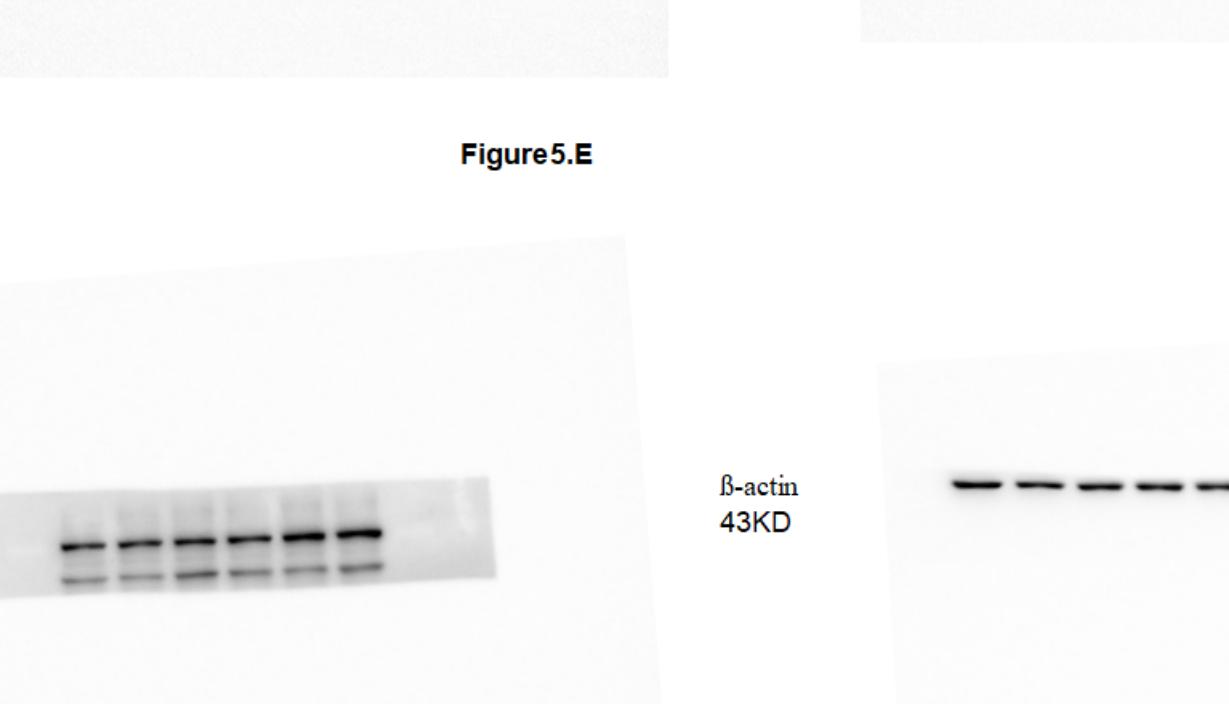


Figure6.B



p-p38
43KD

β-actin
43KD

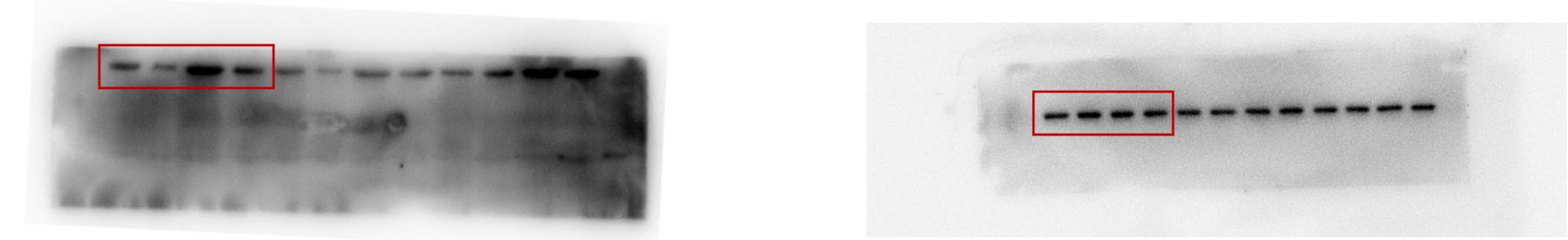
MMP9
98KD

β-actin
43KD

SOCS3
32KD

β-actin
43KD

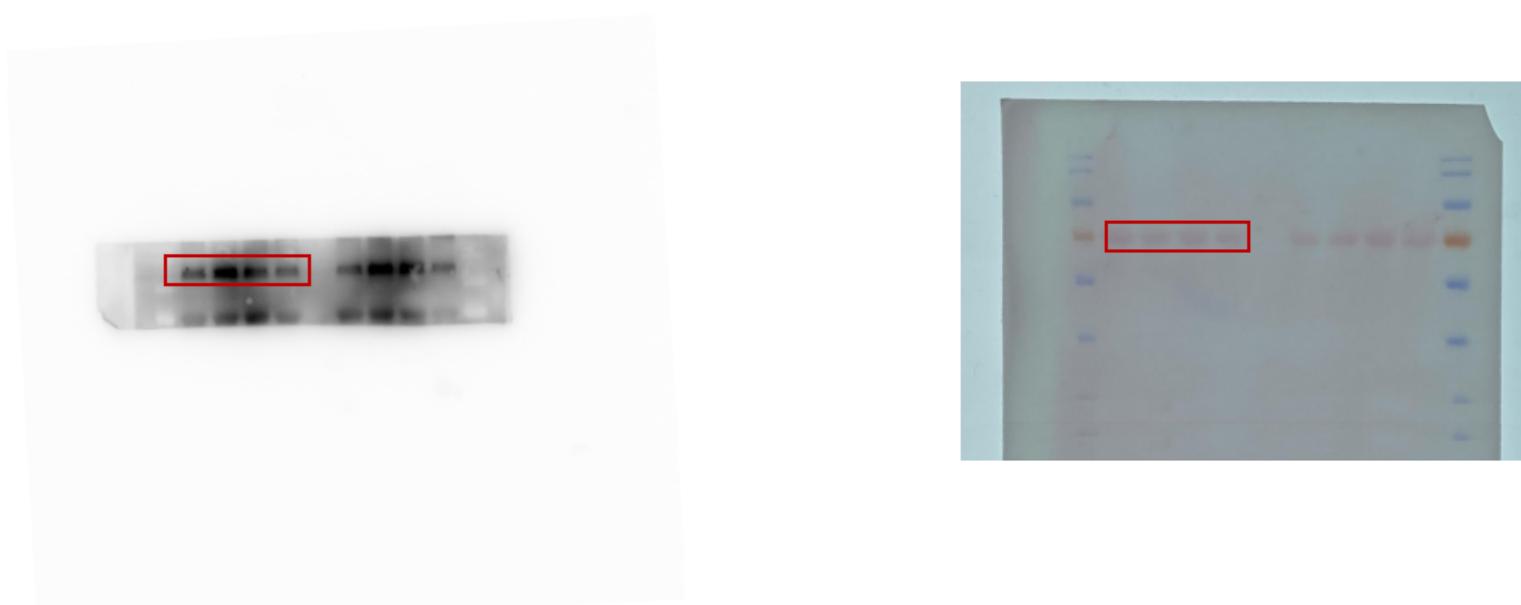
Figure6.F



p-p38
38KD

β-actin
43KD

Figure6.G



MMP9
90KD

Ponceaus
72KD

Figure6.H



SOCS3
32KD

β-actin
43KD