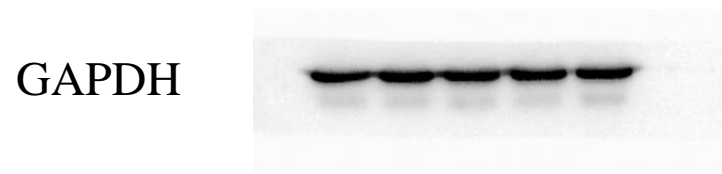
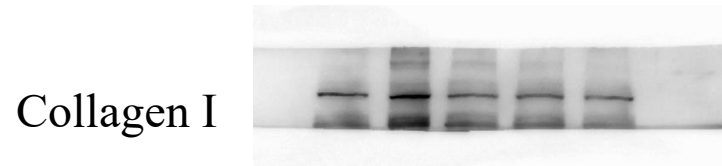
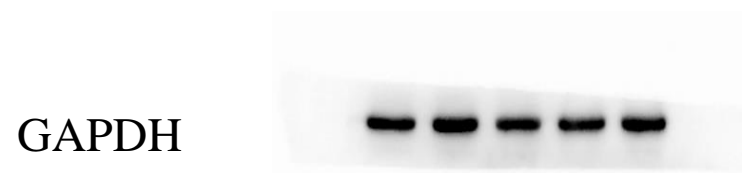
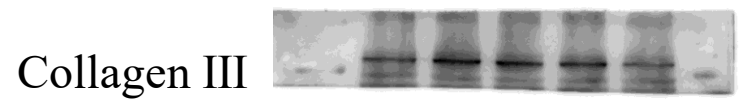


Bellidifolin ameliorates myocardial fibrosis by regulating TGF- β 1/Smads and p38 signaling to prevent NR4A1 cytoplasmic localization

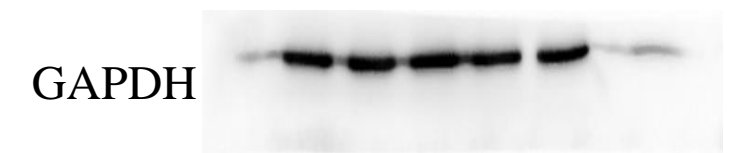
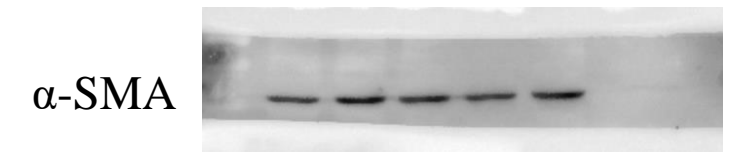
Hong-Xia Yang^{1,2,†}, Jia-Huan Sun^{3,†}, Ting-Ting Yao^{1,†}, Yuan Li^{1,†}, Geng-Rui Xu¹, Chuang Zhang¹, Xing-Chao Liu⁴, Wei-Wei Zhou¹, Qiu-Hang Song^{1,4,5}, Yue Zhang^{1,4,5,*}, Ai-Ying Li^{1,4,5,*}



Control
ISO
BEL 25 mg/kg
BEL 50 mg/kg
TMZ 20 mg/kg

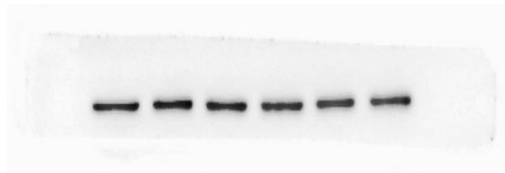


Control
ISO
BEL 25 mg/kg
BEL 50 mg/kg
TMZ 20 mg/kg

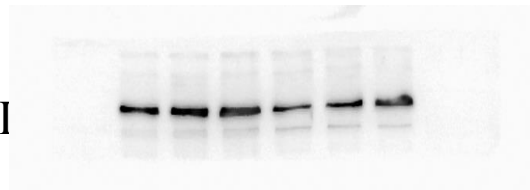


Control
ISO
BEL 25 mg/kg
BEL 50 mg/kg
TMZ 20 mg/kg

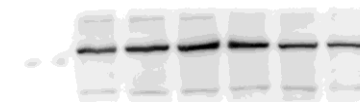
α -SMA



Collagen I



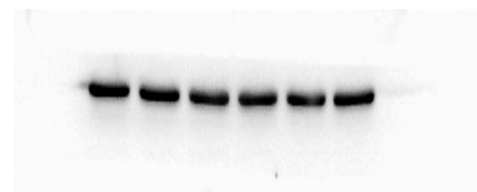
Collagen III



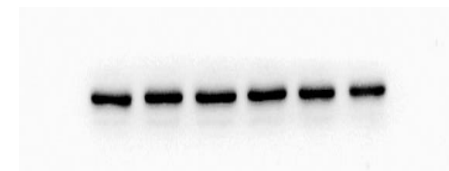
GAPDH



GAPDH



GAPDH

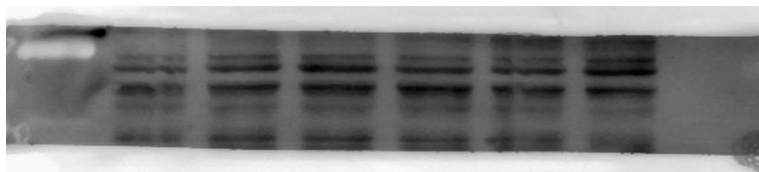


Control
TGF- β 1
TGF- β 1+DMSO
BEL 15 μ M
BEL 30 μ M
BEL 60 μ M

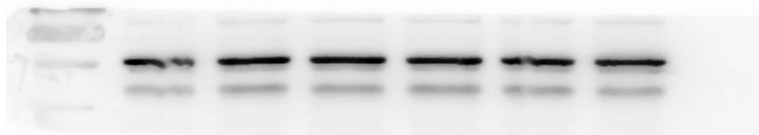
Control
TGF- β 1
TGF- β 1+DMSO
BEL 15 μ M
BEL 30 μ M
BEL 60 μ M

Control
TGF- β 1
TGF- β 1+DMSO
BEL 15 μ M
BEL 30 μ M
BEL 60 μ M

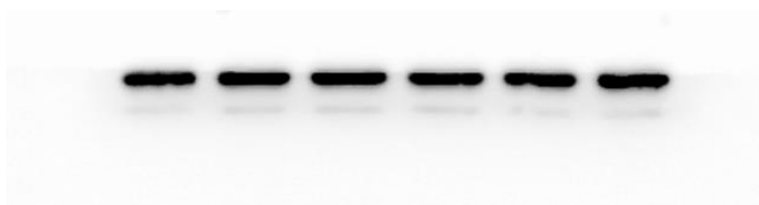
P-T β RI



T β RI

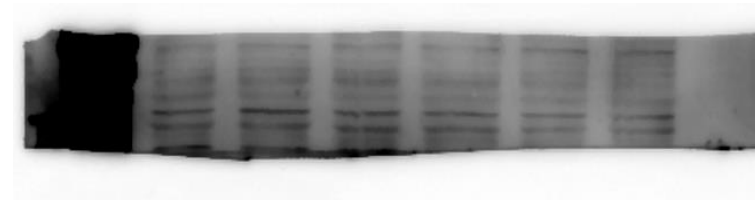


GAPDH

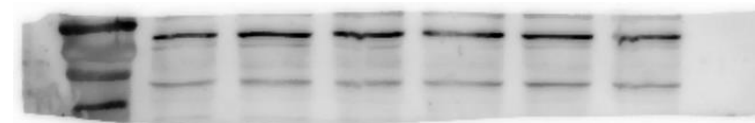


Control
TGF- β 1
TGF- β 1+DMSO
BEL 15 μ M
BEL 30 μ M
BEL 60 μ M

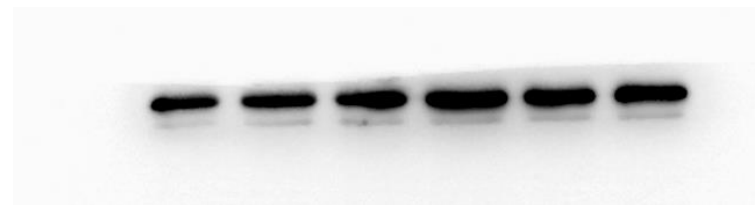
P-T β RII



T β RII

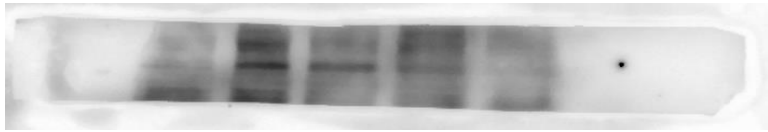


GAPDH

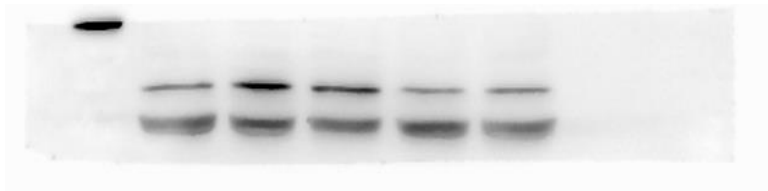


Control
TGF- β 1
TGF- β 1+DMSO
BEL 15 μ M
BEL 30 μ M
BEL 60 μ M

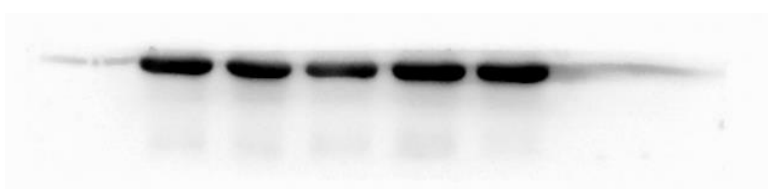
P-T β RI



T β RI

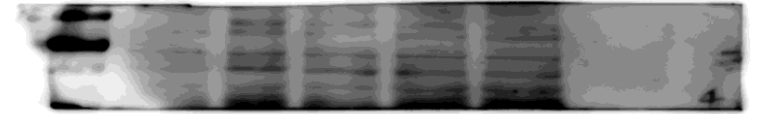


GAPDH

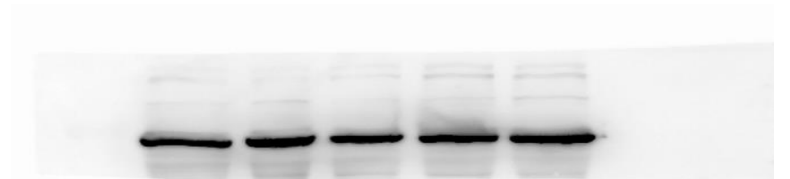


Control
ISO
BEL 25 mg/kg
BEL 50 mg/kg
TMZ 20 mg/kg

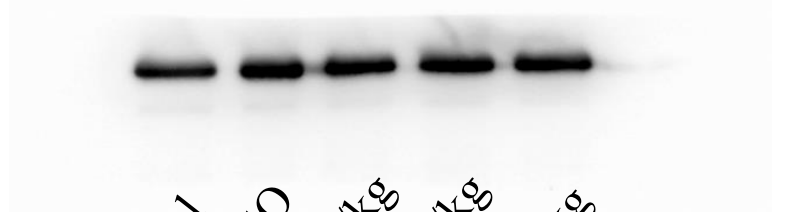
P-T β RII



T β RII

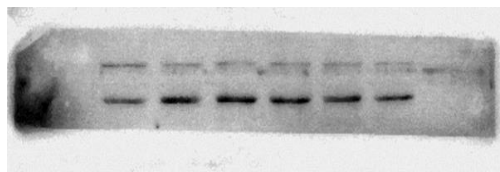


GAPDH

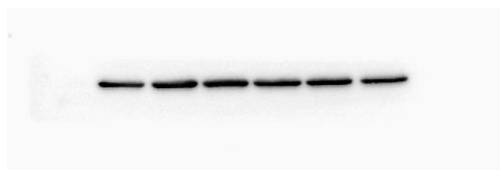


Control
ISO
BEL 25 mg/kg
BEL 50 mg/kg
TMZ 20 mg/kg

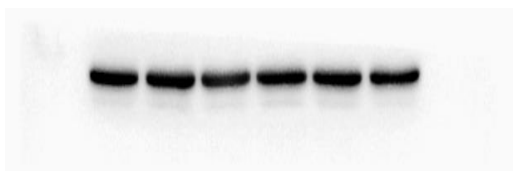
P-Smad2



Smad2

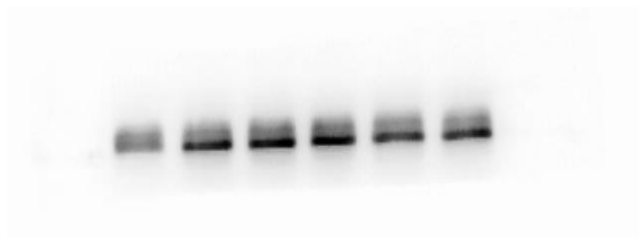


GAPDH

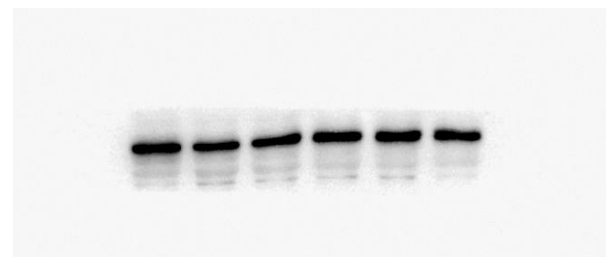


Control
TGF- β 1
TGF- β 1+DMSO
BEL 15 μ M
BEL 30 μ M
BEL 60 μ M

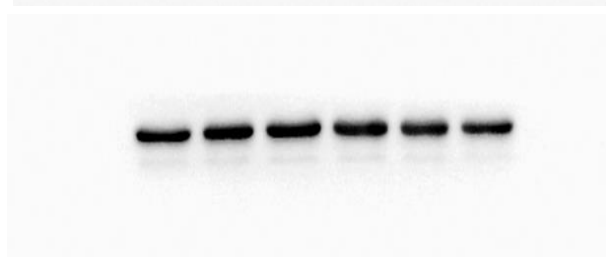
P-Smad3



Smad3

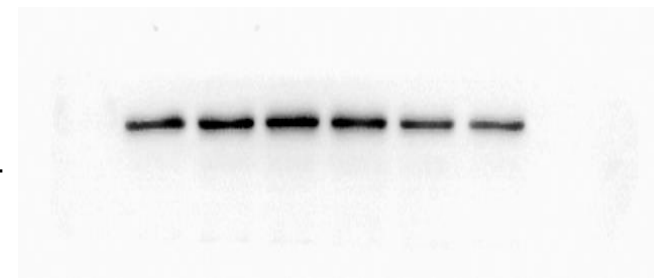


GAPDH

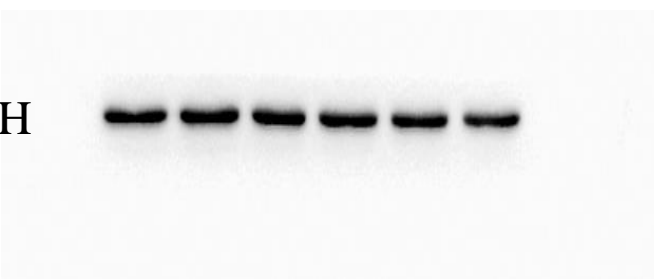


Control
TGF- β 1
TGF- β 1+DMSO
BEL 15 μ M
BEL 30 μ M
BEL 60 μ M

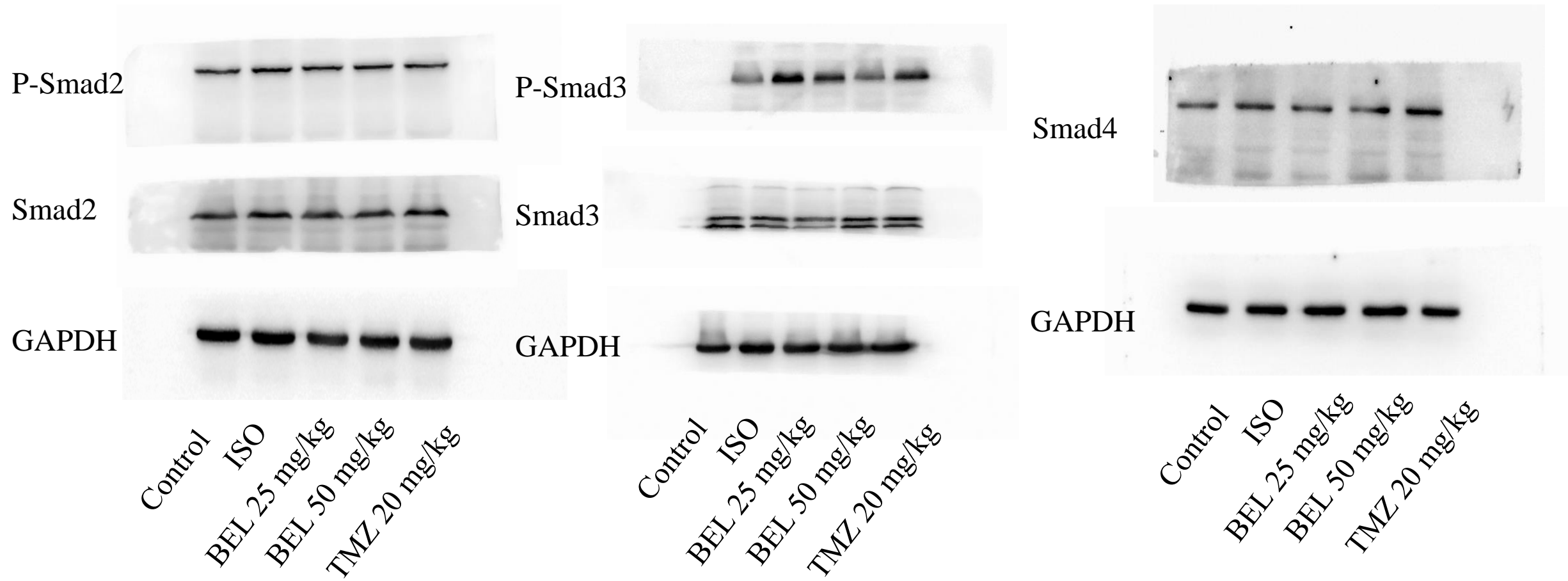
Smad4

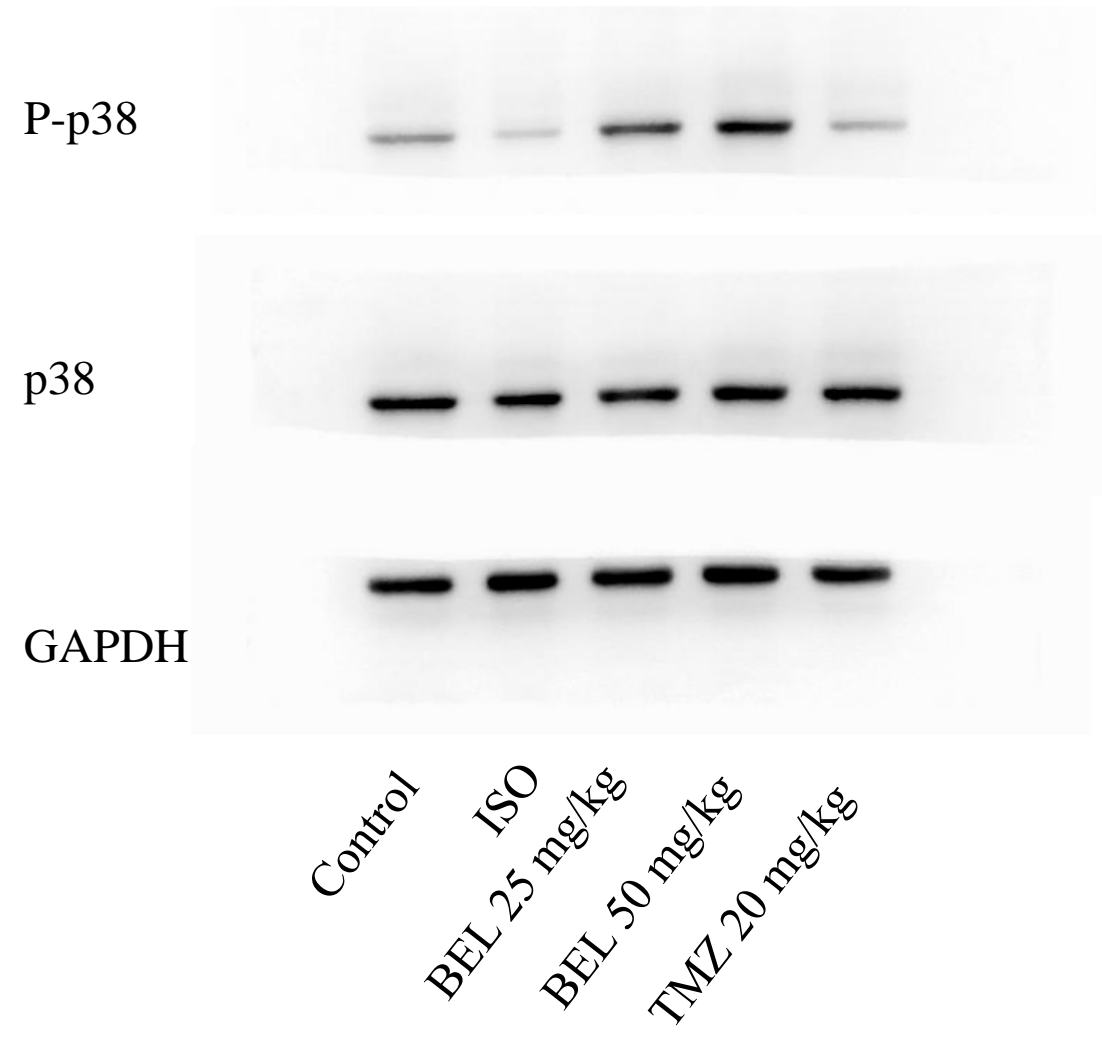
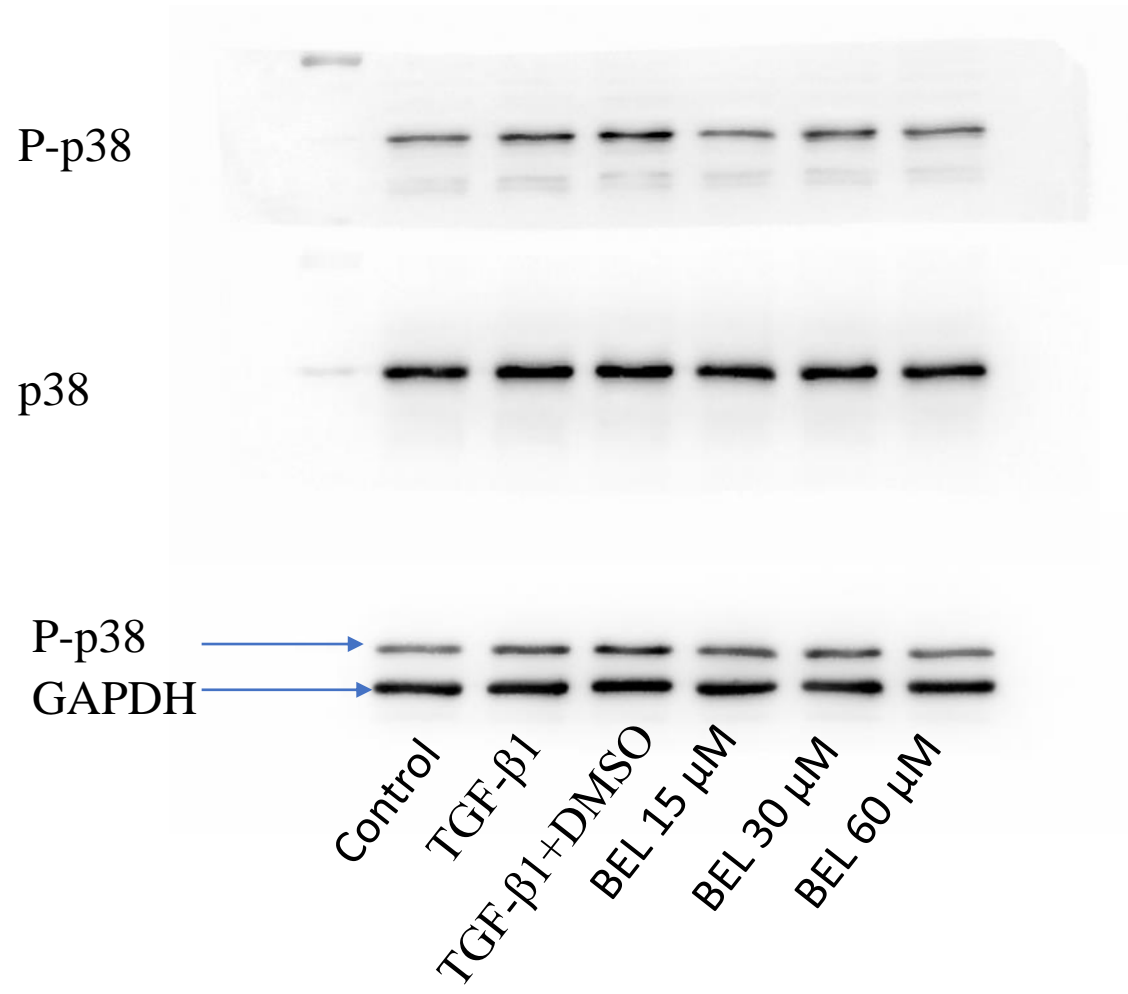


GAPDH

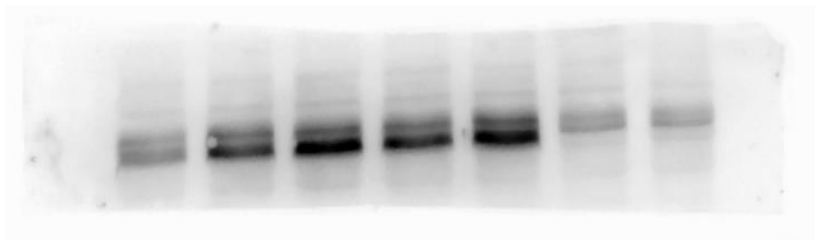


Control
TGF- β 1
TGF- β 1+DMSO
BEL 15 μ M
BEL 30 μ M
BEL 60 μ M

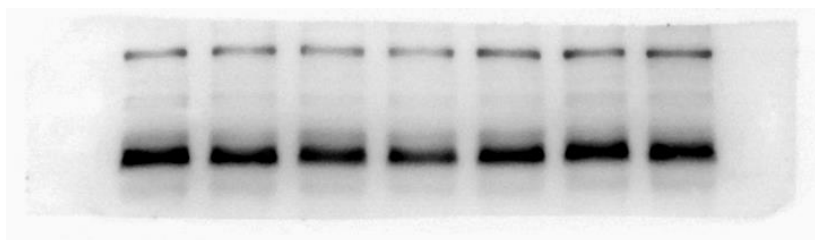




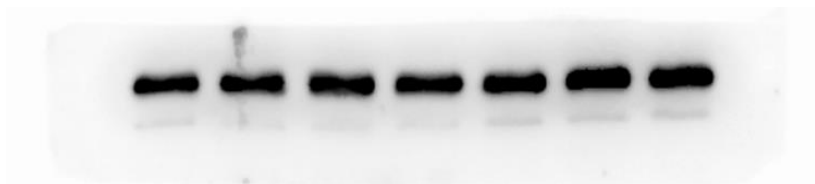
P-Smad3



Smad3

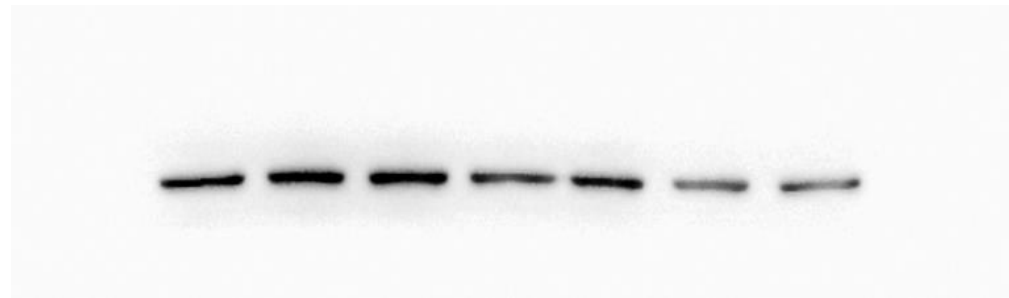


GAPDH

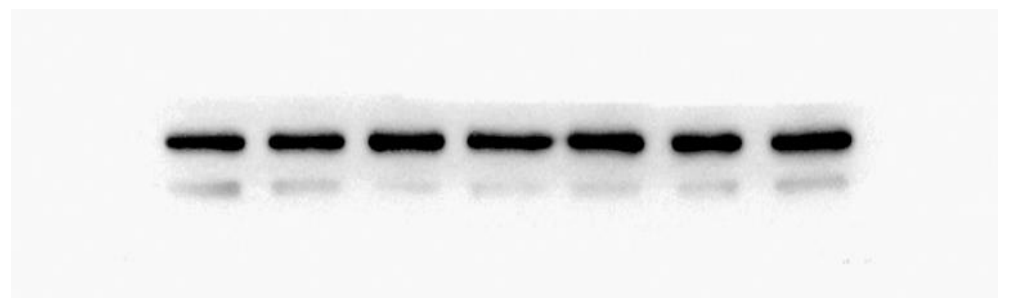


Control
TGF- β 1
TGF- β 1+DMSO
BEL 60 μ M
SB203580
LY2157299
SB203580+LY2157299

α -SMA

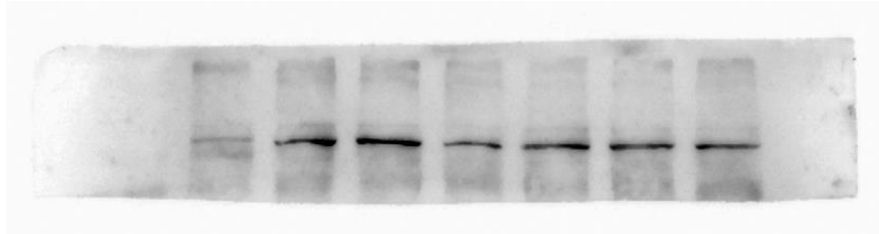


GAPDH

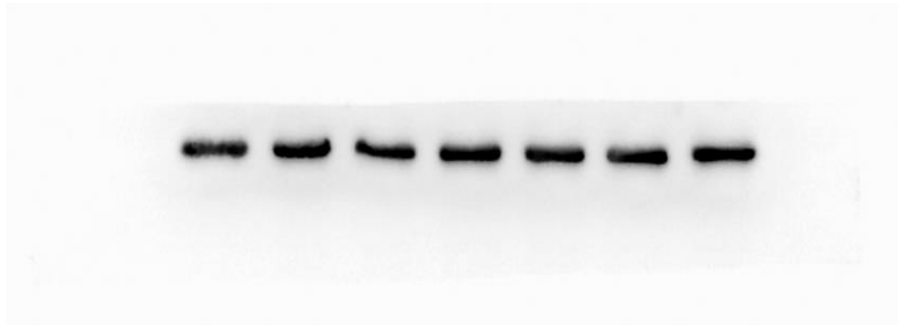


Control
TGF- β 1
TGF- β 1+DMSO
BEL 60 μ M
SB203580
LY2157299
SB203580+LY2157299

Collagen I

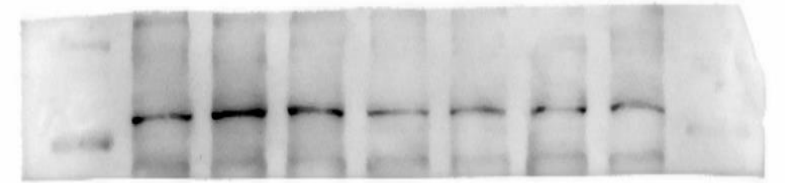


GAPDH

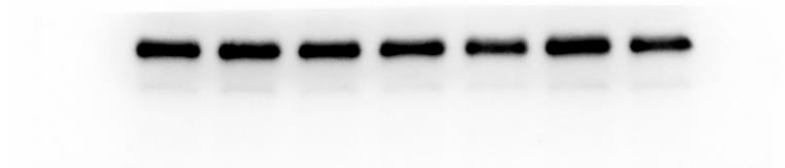


Control
TGF- β 1
TGF- β 1+DMSO
BEL 60 μ M
SB203580
LY2157299
SB203580+LY2157299

Collagen III

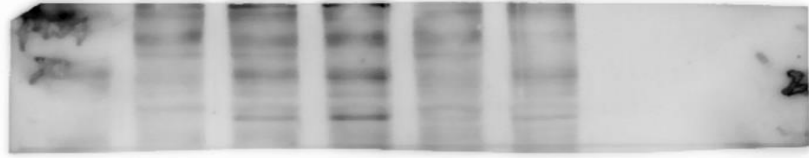


GAPDH

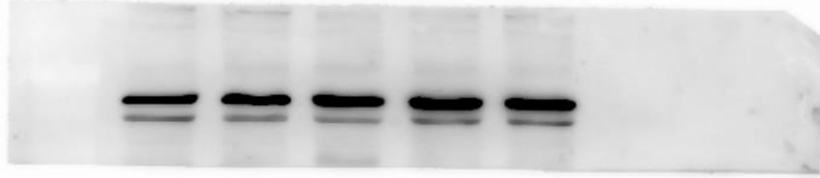


Control
TGF- β 1
TGF- β 1+DMSO
BEL 60 μ M
SB203580
LY2157299
SB203580+LY2157299

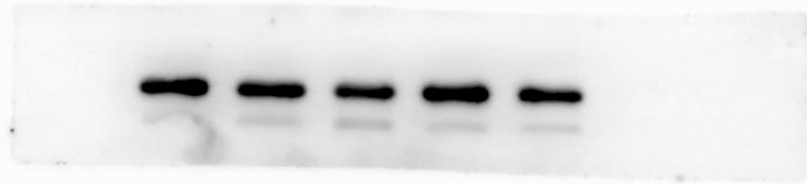
Total-P-NR4A1



Total-NR4A1

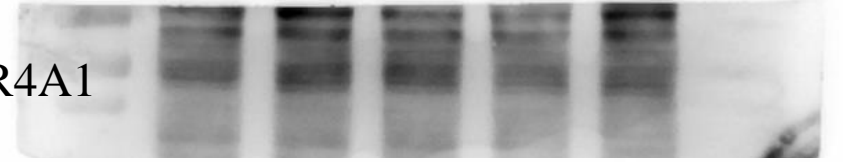


GAPDH

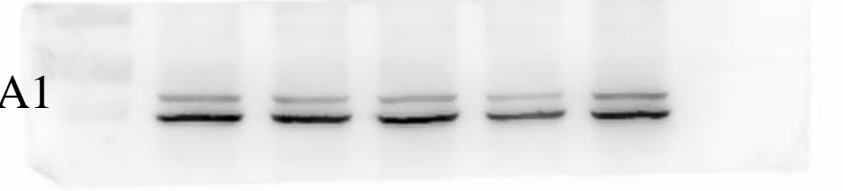


Control
TGF- β 1
TGF- β 1+DMSO
BEL 60 μ M
SB203580

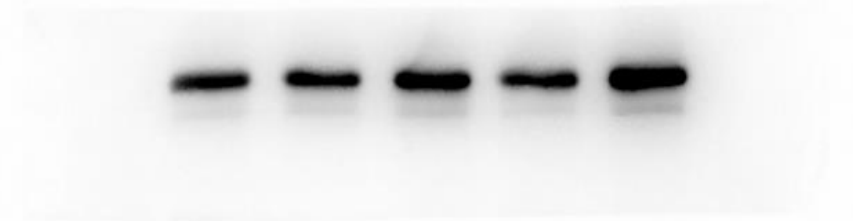
Cytoplasm-P-NR4A1



Cytoplasm-NR4A1

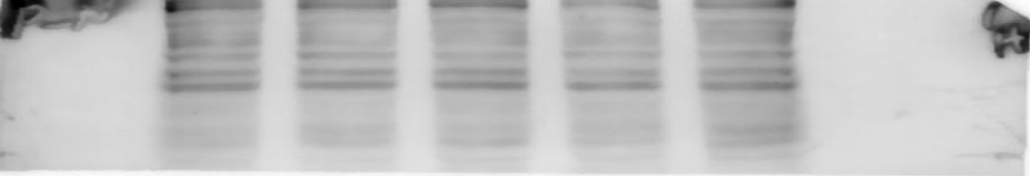


GAPDH

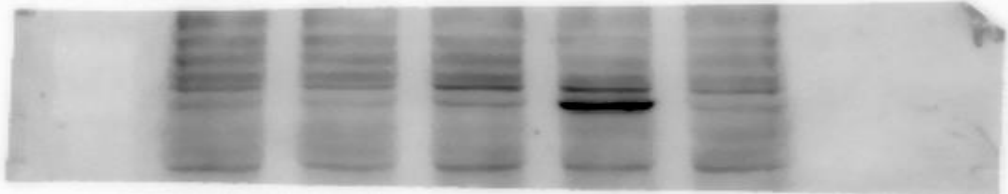


Control
TGF- β 1
TGF- β 1+DMSO
BEL 60 μ M
SB203580

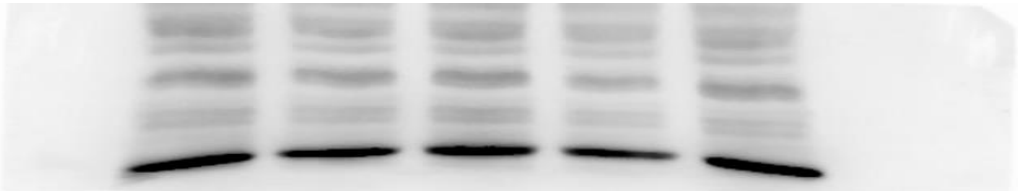
Nucleus-P-NR4A1



Nucleus-NR4A1



Histone H3



Control
TGF-β1
TGF-β1+DMSO
BEL 60 μM
SB203580