

Supplementary Figure1-14 and captions

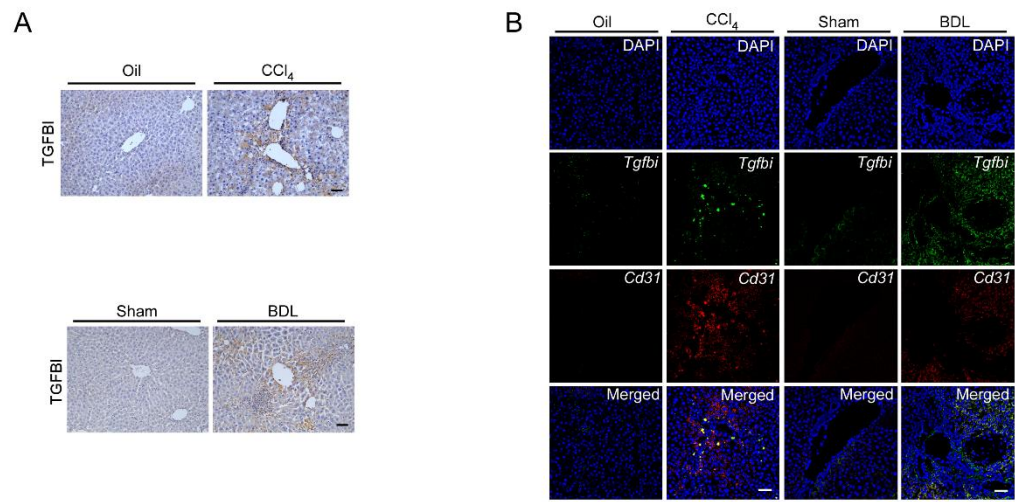


Fig S1. TGFBI is significantly upregulated in nonparenchymal cells of fibrotic livers. **A** IHC staining of TGFBI in mouse livers. **B** FISH analysis of coexpression of *Tgfb1* with *Cd31* in mouse livers, respectively. Mice samples (n = 4-6 per group). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m.

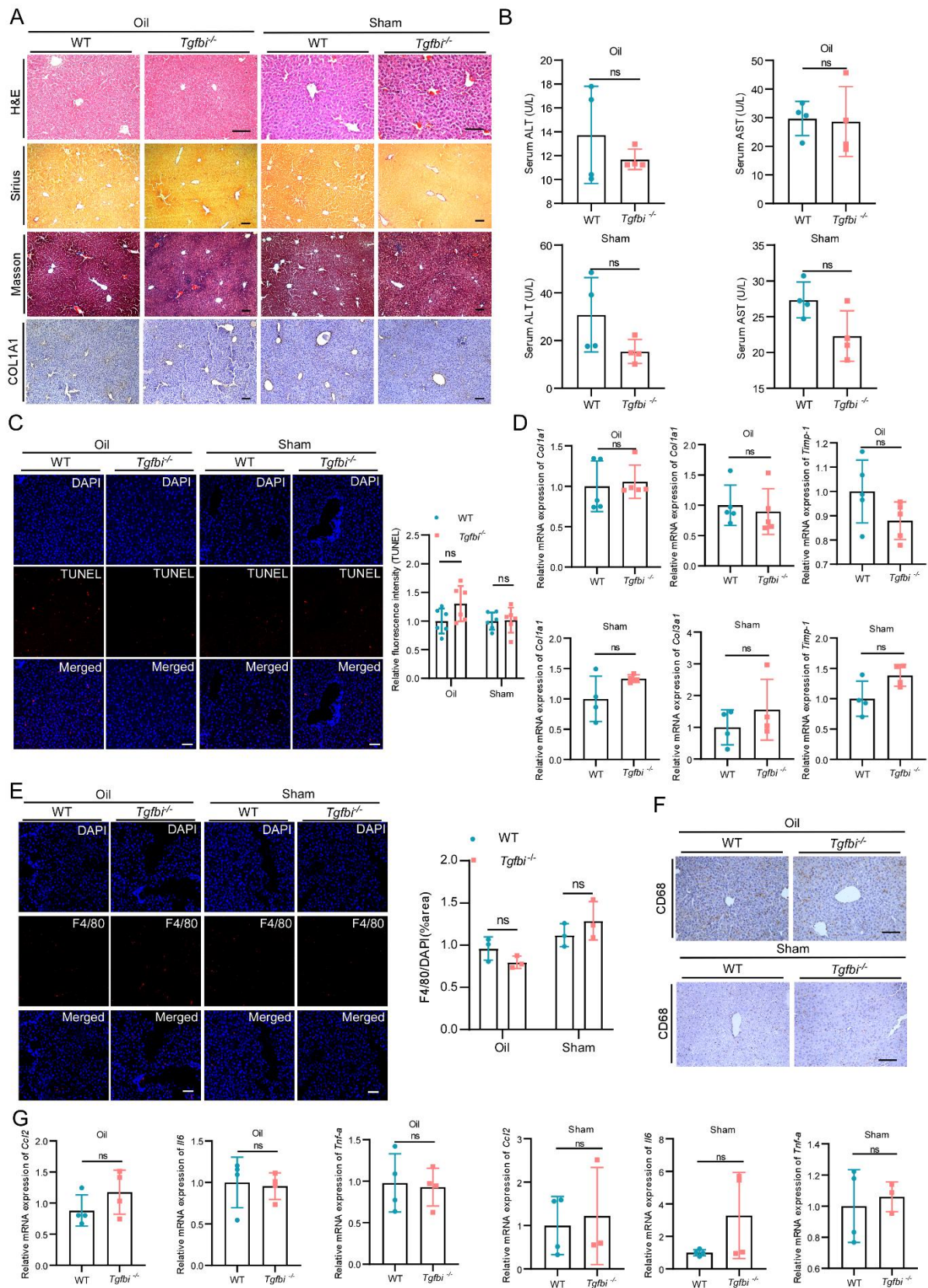


Fig S2. TGFBI deficiency remarkably alleviates mice liver inflammation and fibrosis. **A** H&E, Sirius, Masson staining and IHC staining of COL1A1 in the livers of WT and *Tgfb1*^{-/-} mice of control group. **B** The measurement of serum ALT and AST in mice of control group. **C** TUNEL staining and quantitative analysis of apoptosis in mice of control group. **D** RT-qPCR analysis of *Colla1*, *Col3a1* and *Timp-1* expression in mice of control group. **E** IF staining of F4/80 in mouse fibrotic livers and statistical analysis of IF staining of F4/80. **F** IHC staining of CD68 in mouse livers of CCl₄ and BDL models. **G** RT-qPCR analysis of *Ccl2*, *Il6* and *Tnf-α* expression in mice of control group. Mice samples (n = 4-6 per group). Data were presented as the mean ± SDs; scale bars, 50 μm; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

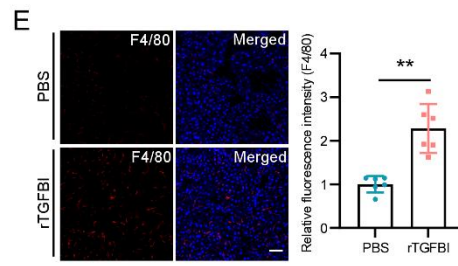
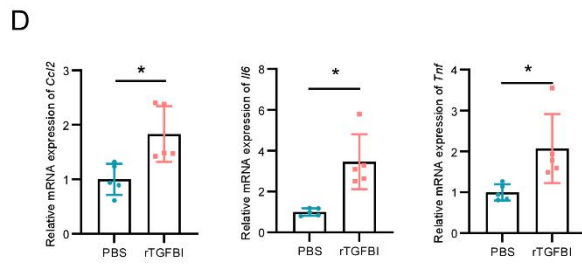
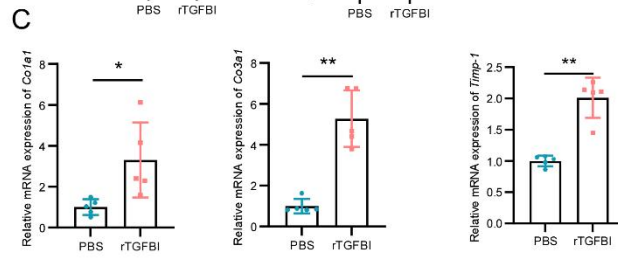
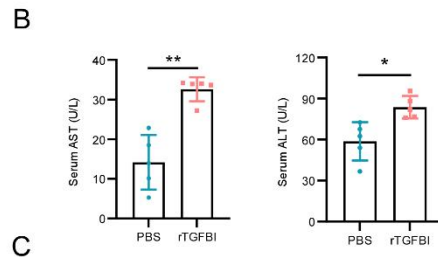
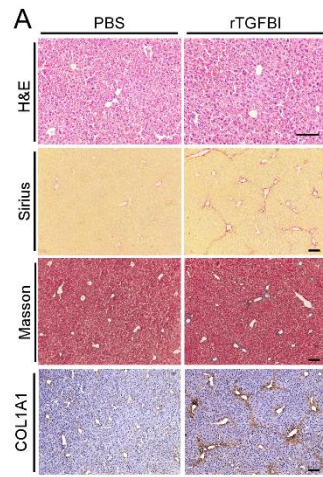


Fig S3. Overexpression of TGFBI can induce liver fibrosis in mice.

A H&E, Sirius, Masson staining and IHC staining of COL1A1 in mouse livers treated with or without rTGFBI. **B** The measurement of serum ALT and AST in mice. **C** RT-qPCR analysis of *Acta2*, *Colla1* and *Col3a1* expression. **D** RT-qPCR analysis of *Ccl2*, *Il6* and *Tnf-a* expression. **E** IF staining of F4/80 in mouse fibrotic livers. Mice samples (n = 4-6 per group). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001.

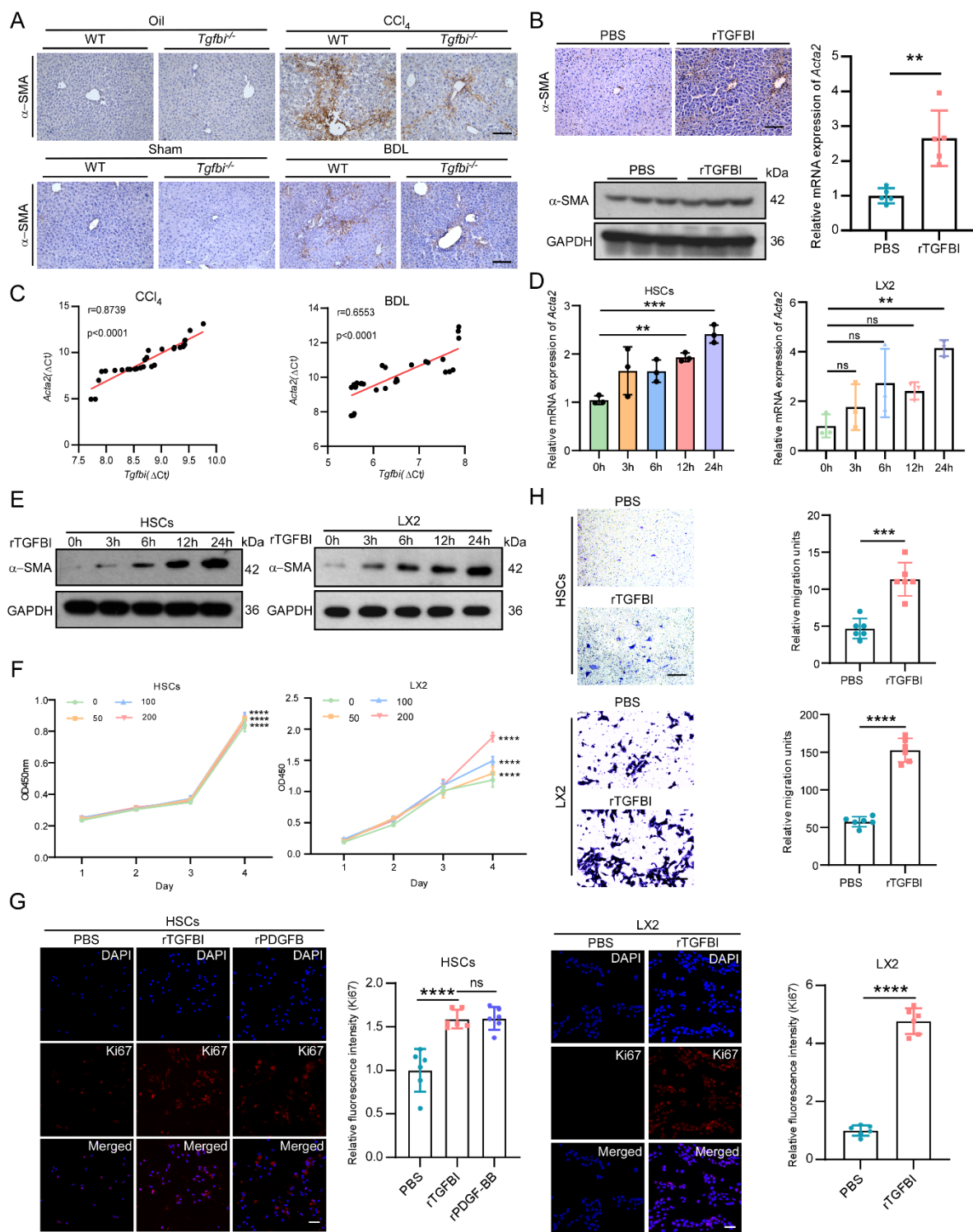


Fig S4. TGFBI promotes HSCs proliferation, migration and activation. **A** IHC staining of α -SMA in WT and *Tgfb1*^{-/-} mouse livers of CCl₄ and BDL models. **B** IHC staining of α -SMA, Western blot analysis of α -SMA and RT-qPCR analysis of *Acta2* in mouse livers treated with or without rTGFBI. **C** Correlation analysis of *Tgfb1* and *Acta2* mRNA levels in mouse fibrotic livers (n = 12 independent samples). **D** RT-qPCR analysis of α -SMA in HSCs or LX2 treated with rTGFBI (200ng/mL) with the indicated times (n = 3 independent experiments). **E** Western blot analysis of α -SMA in HSCs or LX2 treated with rTGFBI (200ng/mL) with the indicated times (n = 3 independent experiments). **F** CCK8 assay of HSCs or LX2 treated with rTGFBI (200ng/mL) (n = 3 independent experiments). **G** IF staining of Ki67 in HSCs or LX2 treated with rTGFBI (200 ng/mL) for 6 h (n = 3 independent experiments). **H** Transwell assay of HSCs or LX2 treated with rTGFBI (200ng/mL) (n = 3 independent experiments). Mice samples (n = 4-6 per group). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

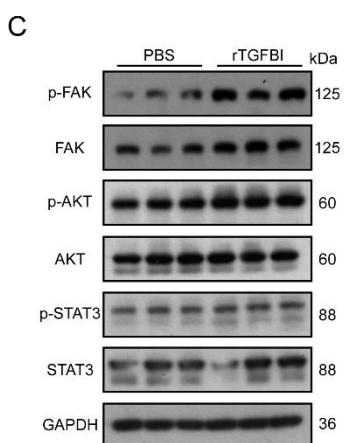
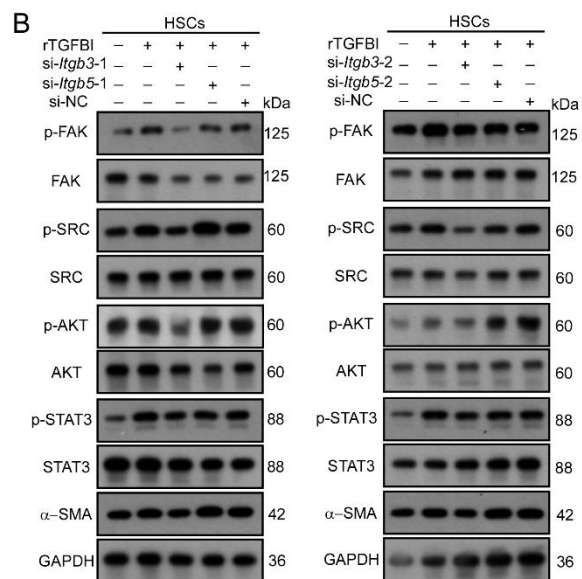
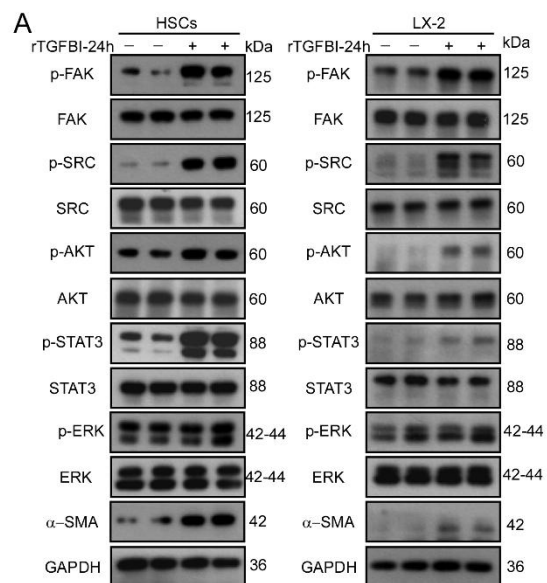


Fig S5. TGFBI activates HSCs through the integrin $\alpha v\beta 3$ -FAK-STAT3 signaling pathway. **A** Western blot analysis of the indicated proteins in HSCs treated with rTGFBI (200ng/mL) for 24 h (n = 3 independent experiments). **B** Western blotting analysis of indicator proteins in HSCs treated alone with rTGFBI (200ng/mL) or in combination with *Itgb3* or *Itgb5* siRNA (n = 3 independent experiments). **C** Western blot analysis of the indicated proteins in mouse livers treated with or without rTGFBI. Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

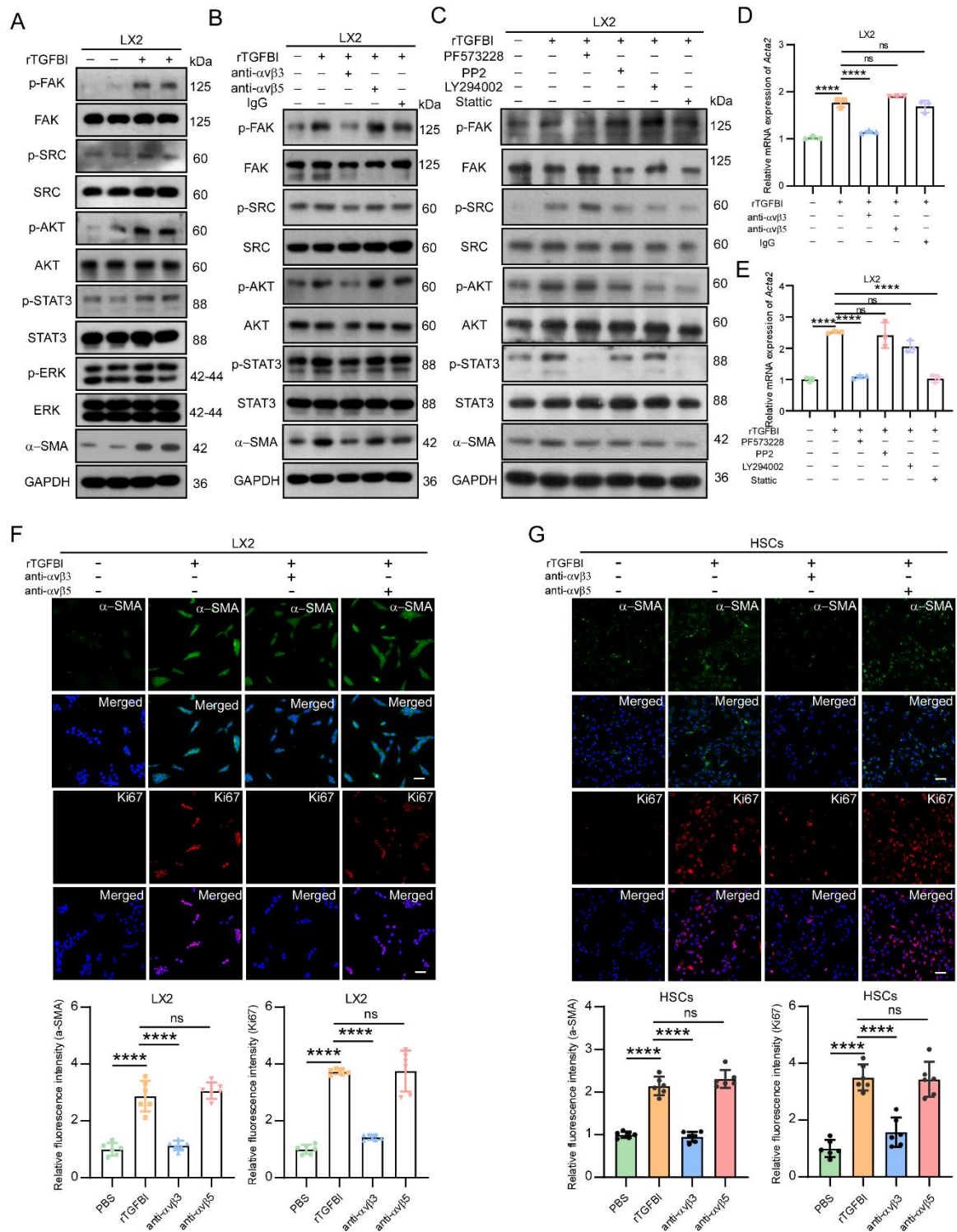


Fig S6. TGFBI activates HSCs through the integrin $\alpha\text{v}\beta\text{3}$ -FAK-STAT3 signaling pathway. **A** Western blot analysis of the indicated proteins in LX2 treated with rTGFBI (200ng/mL) for 6 h (n = 3 independent experiments). **B** Western blot analysis of the indicated proteins in LX2 treated with rTGFBI (200ng/mL) alone or in combination with integrin $\alpha\text{v}\beta\text{3}$ or $\alpha\text{v}\beta\text{5}$ neutralizing antibody (n = 3 independent experiments). **C** Western blot analysis of the indicated proteins in HSCs or LX2 treated with rTGFBI (200ng/mL) or in combination with the indicated inhibitors for 6 h (n = 3 independent experiments). **D** RT-qPCR analysis of *Acta2* in LX2 treated with rTGFBI (200ng/mL) alone or in combination with integrin $\alpha\text{v}\beta\text{3}$ or $\alpha\text{v}\beta\text{5}$ neutralizing antibody (n = 3 independent experiments). **E** RT-qPCR analysis of *Acta2* in HSCs or LX2 treated with rTGFBI (200ng/mL) alone or in combination with the indicated inhibitors for 6 h (n = 3 independent experiments). **F-G** IF staining and statistical graph of α -SMA in HSCs or LX2 treated with rTGFBI (200ng/mL) alone or in combination with integrin $\alpha\text{v}\beta\text{3}$ or $\alpha\text{v}\beta\text{5}$ neutralizing antibodies (n = 3 independent experiments). Data were presented as the mean $\pm$ SDs; scale bars, 50 μm ; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

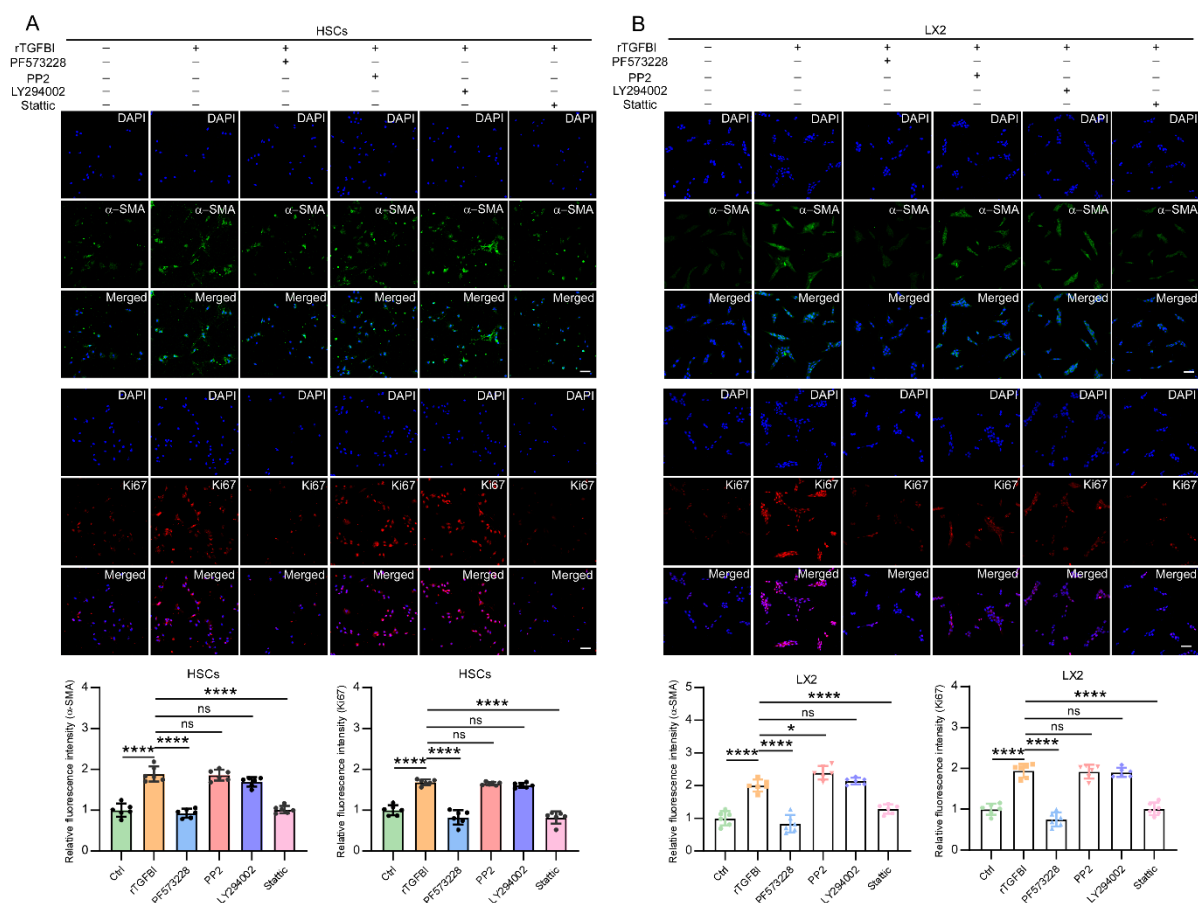


Fig S7. TGFBI activates HSCs through the integrin $\alpha\text{v}\beta 3$ -FAK-STAT3 signaling pathway. A-B IF staining of α -SMA in HSC or LX2 treated with rTGFB1 (200ng/mL) alone or in combination with indicated inhibitors for 6 h ($n = 3$ independent experiments) and statistical plots of relative fluorescence intensity. Scale bars, 50 μm . * $p < 0.05$ ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$; ns, not significant (Student's t test).

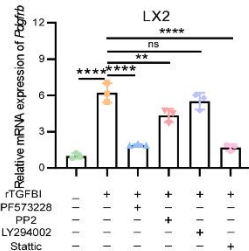
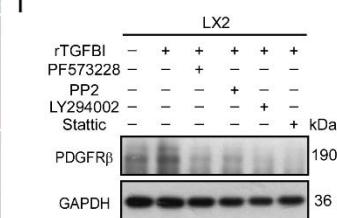
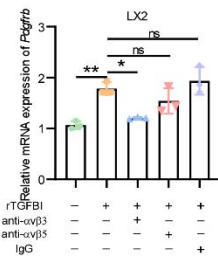
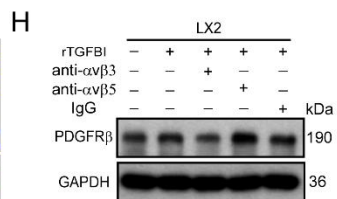
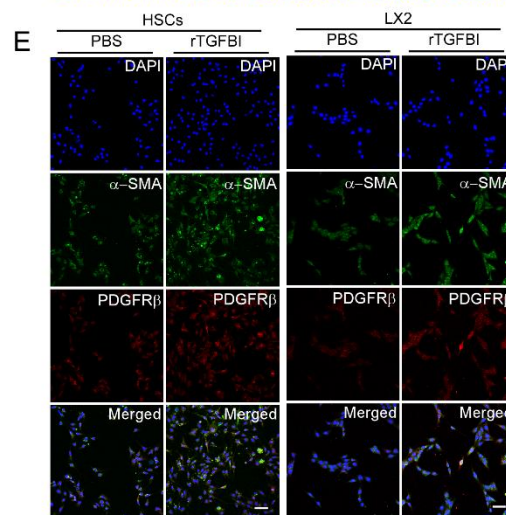
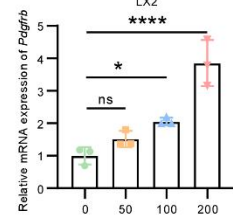
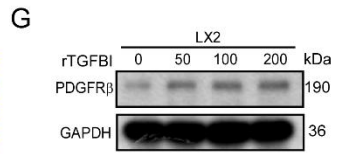
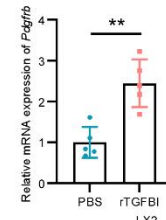
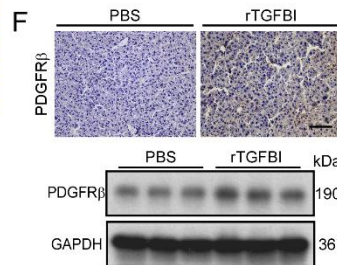
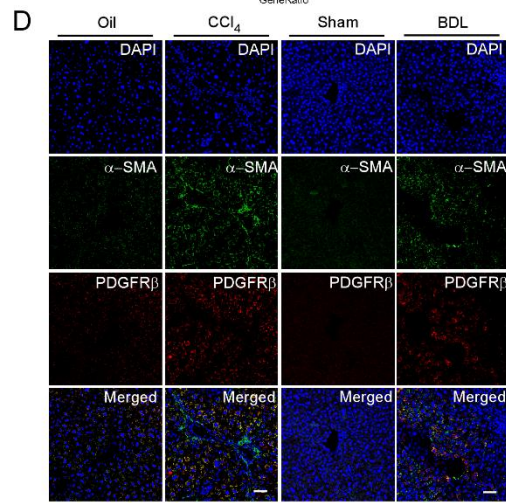
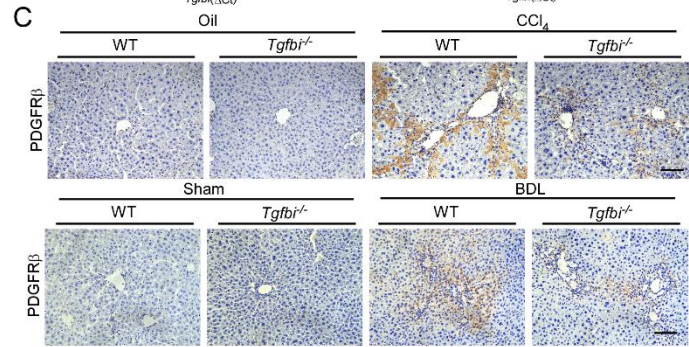
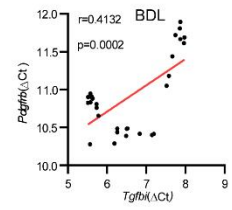
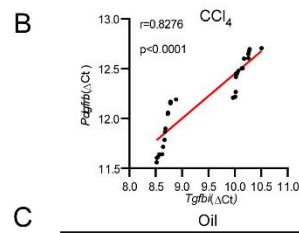
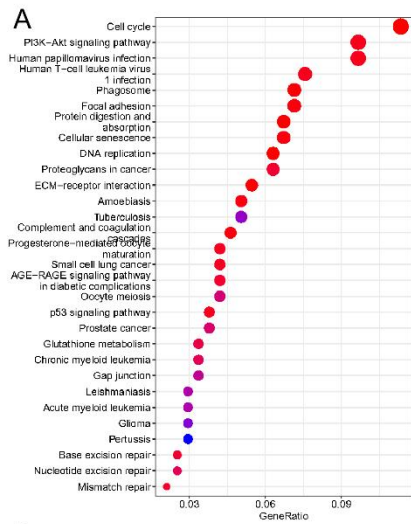


Fig S8. TGFBI significantly enhances PDGFR β expression in HSCs.

A KEGG pathway analysis of differentially expressed genes from liver tissues of CCl₄-induced WT, and *Tgfb1*^{-/-} mice. **B** Correlation analysis of *Tgfb1* mRNA with *Pdgfrb* mRNA in mouse fibrotic livers (n = 12 independent samples). **C** IHC staining of PDGFR β in mouse livers. **D** IF co-staining of PDGFR β with α -SMA in mouse livers of CCl₄ and BDL models. **E** IF co-staining of PDGFR β with α -SMA in HSCs or LX2 treated with rTGFBI. **F** IHC staining of in mouse livers treated with or without rTGFBI, Western blot analysis of PDGFR β and RT-qPCR analysis of *Pdgfrb* in mouse livers treated with or without rTGFBI. **G** Western blot and RT-qPCR analysis of PDGFR β in LX2 treated with rTGFBI (ng/mL) with the indicated concentrations for 6 h (n = 3 independent experiments). **H** Western blot and RT-qPCR analyses of PDGFR β in LX2 treated with rTGFBI (200ng/mL) alone or in combination with integrin α v β 3 or α v β 5 neutralizing antibody for 6 h (n = 3 independent experiments). **I** RT-qPCR and Western blot analyses of PDGFR β in LX2 treated with rTGFBI (200ng/mL) alone or in combination with the indicated inhibitors for 6 h (n = 3 independent experiments). Mice samples (n = 4-6 per group). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

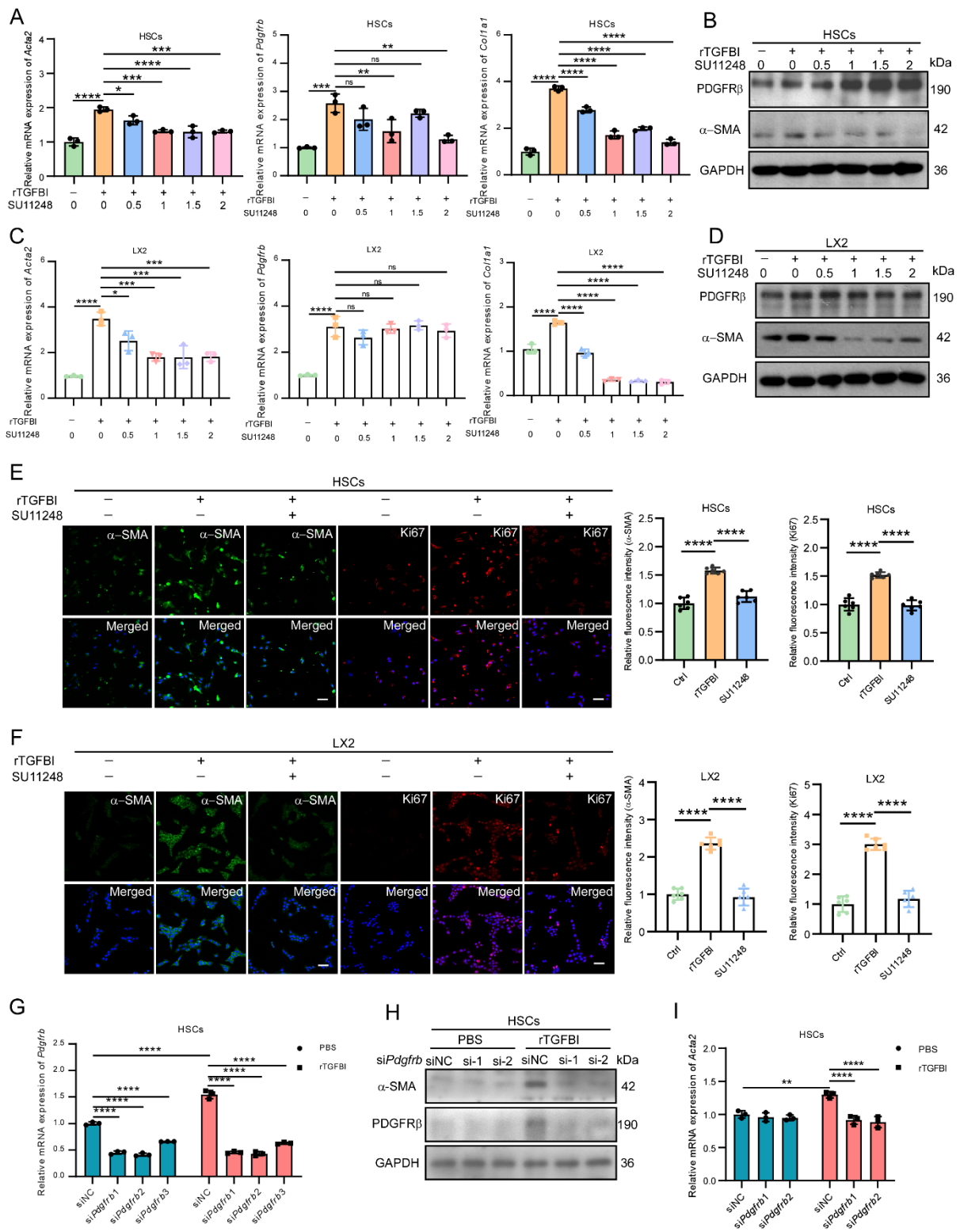


Fig S9. Blocking PDGFR β can effectively reduce HSCs activation. A and C RT-qPCR analysis of *Acta2*, *Pdgfrb* and *Colla1* in HSCs or LX2 treated with rTGFBI (200ng/mL) alone or in combination with SU11248 (μ M) for 6h (n = 3 independent experiments). **B and D** Western blot analysis of α -SMA and PDGFR β in HSCs or LX2 treated with rTGFBI (200ng/mL) alone or in combination with SU11248 (μ M) for 6h (n = 3 independent experiments). **E-F** IF staining and statistical graph of α -SMA and Ki67 in HSCs or LX2 treated with rTGFBI (200ng/mL) alone or in combination with SU11248 (μ M) (n = 3). **G** RT-qPCR analysis of *Pdgfrb* in HSCs transfected with indicated siRNAs for 24h and treated with or without rTGFBI (200ng/mL) for 24 h (n = 3 independent experiments). **H** Western blot analyses of α -SMA in HSCs transfected with the indicated siRNAs for 24h and treated with or without rTGFBI (200ng/mL) for 24 h (n = 3 independent experiments). **I** RT-qPCR analyses of α -SMA in HSCs transfected with the indicated siRNAs for 24h and treated with or without rTGFBI (200ng/mL) for 24 h (n = 3 independent experiments). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

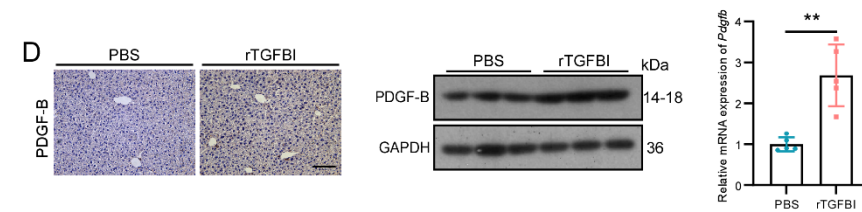
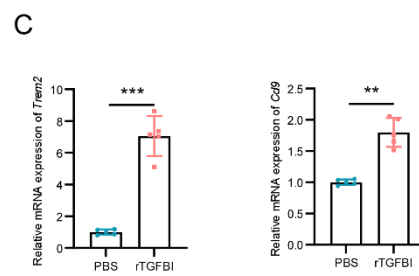
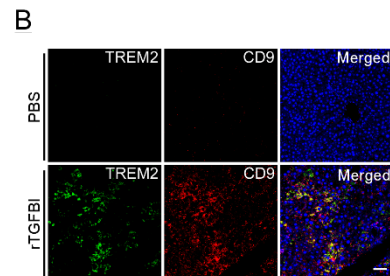
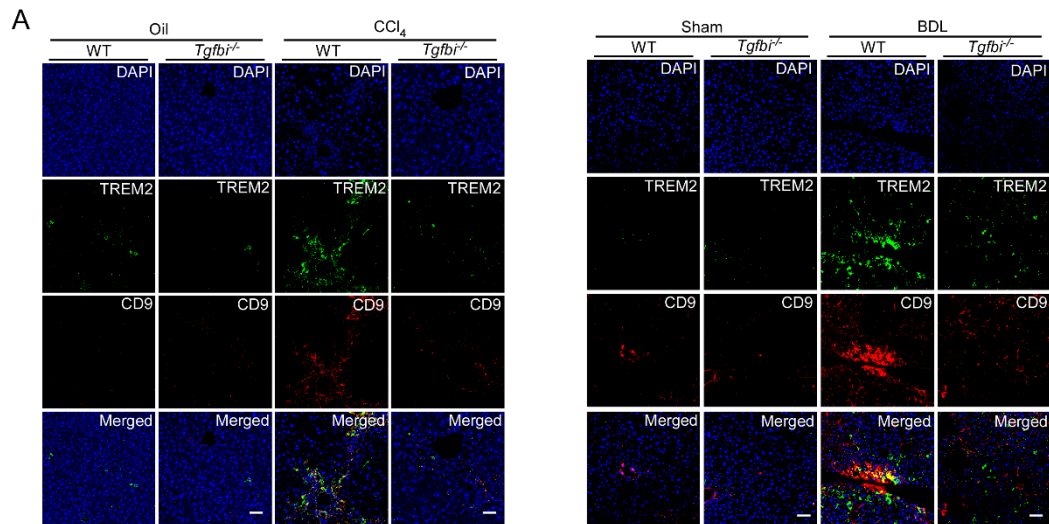


Fig S10. TGFBI regulates the expression of TREM2, CD9 and PDGF-B in macrophages. **A** IF co-staining of PDGFRB with α -SMA in WT and *Tgfb1*^{-/-} mice livers of CCl₄ and BDL models. Mice samples (n = 4-6 per group). Scale bars, 50 μ m. **B** IF co-staining of α -SMA with TREM2 and CD9 in mouse livers treated with or without rTGFBI. **C** RT-qPCR analysis of *Trem2* and *Cd9* expression in mouse livers treated with or without rTGFBI. Mice samples (n = 5-6 per group). **D** IHC staining of PDGF-B, Western blot analysis of PDGF-B and RT-qPCR analysis of *Pdgfb* in mouse livers treated with or without rTGFBI. Mice samples (n = 4-6 per group). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

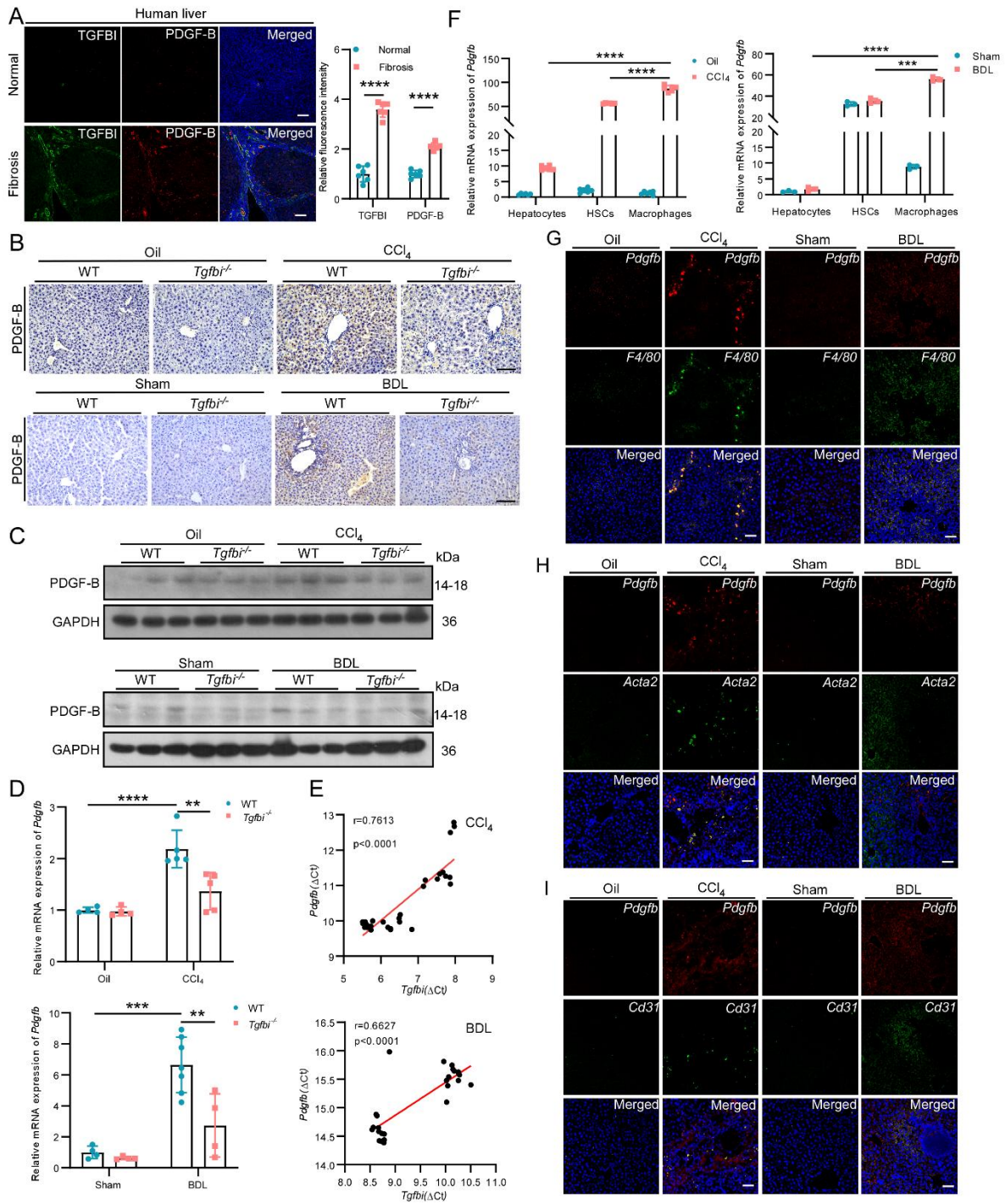


Fig S11. TGFBI orchestrates macrophages through enhancing PDGF-B expression. **A** IF staining of TGFBI and PDGFR β in human fibrotic liver tissue. **B** IHC staining of PDGFB in WT and *Tgfb1*^{-/-} mice livers of CCl₄ and BDL models. **C** Western blot analysis of PDGFB expression in mouse livers of CCl₄ and BDL models. **D** RT-qPCR analysis of PDGF-B expression in mouse livers of CCl₄ and BDL models. **E** Correlation analysis of *Tgfb1* mRNA with *Pdgfb* mRNA in mouse fibrotic livers (n = 12 independent samples). **F** RT-qPCR analysis of PDGFRB in primary liver parenchymal cells, HSCs and macrophages isolated from mice livers of CCl₄ and BDL models (n = 3 independent experiments). **G-I** FISH analysis of co-expression of *Pdgfb* with *F4/80*, *Acta2* and *CD31* in mouse livers, respectively. Mice samples (n = 4-6 per group). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

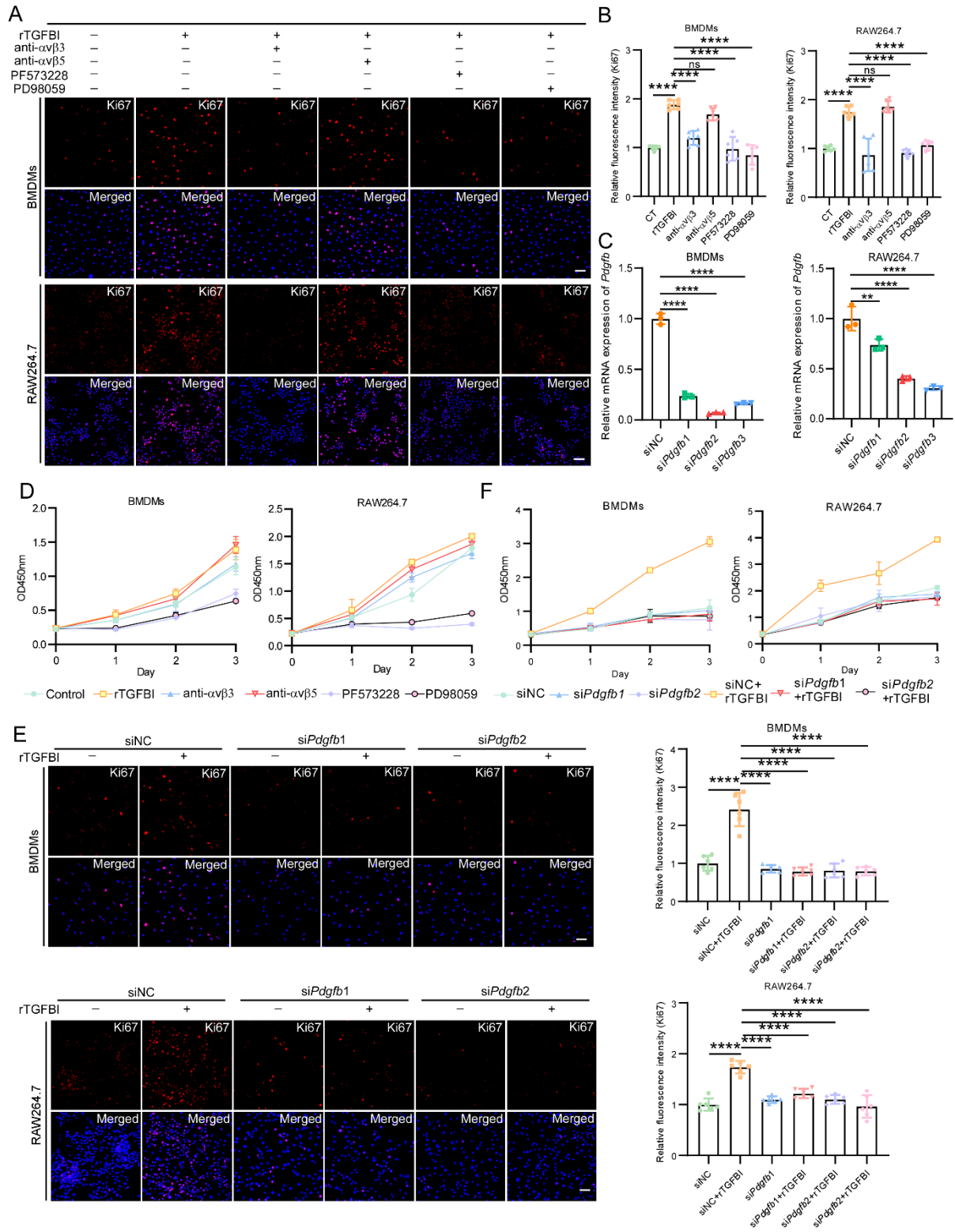


Fig S12. TGFBI promotes the proliferation of macrophages. **A** IF staining of Ki67 in BMDM or RAW264.7 treated with rTGFBI (200ng/mL) alone or in combination with the indicated inhibitors for 6h (n = 3 independent experiments). **B** Statistics of relative fluorescence intensity of Ki67. **C** RT-qPCR analysis of *Pdgfb* in BMDM or RAW264.7 transfected with indicated siRNAs for 24h (n = 3 independent experiments). **D** CCK8 assay of BMDM or RAW264.7 treated with rTGFBI (200ng/mL) alone or in combination with the indicated inhibitors (n = 3 independent experiments). **E** IF staining of Ki67 in BMDM or RAW264.7 transfected with the indicated siRNAs for 24 h and treated with or without rTGFBI (200ng/mL) for 24 h (n = 3 independent experiments). **F** CCK8 assay of BMDM or RAW264.7 transfected with the indicated siRNAs for 24 h and treated with or without rTGFBI (200ng/mL) for 24 h (n = 3 independent experiments). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

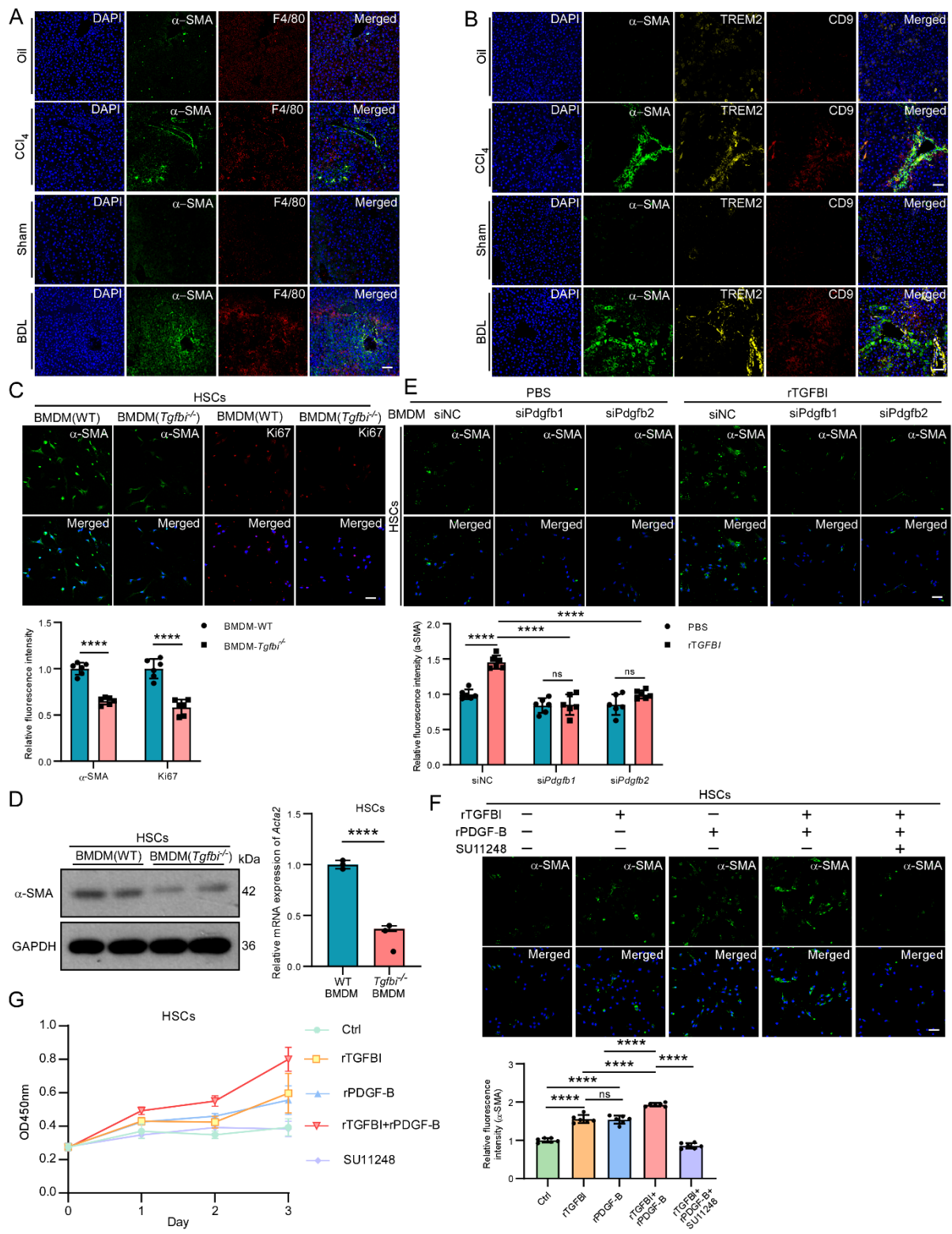


Fig S13. Macrophages promote HSCs activation. **A** IF co-staining of α -SMA with F4/80 in mouse livers of CCl₄ and BDL models. **B** IF co-staining of α -SMA with TREM2 and CD9 in mouse livers of CCl₄ and BDL models. **C** IF staining and quantitative analysis of α -SMA and Ki67 in HSCs cocultured with WT or *Tgfb1*^{-/-} BMDMs (n = 3 independent experiments). **D** RT-qPCR and Western blot analyses of α -SMA in HSCs cocultured with WT or *Tgfb1*^{-/-} BMDMs (n = 3 independent experiments). **E** IF staining and quantitative analysis of α -SMA in HSCs cocultured with BMDMs transfected the indicated siRNAs for 24 h and treated with or without rTGFB I (200ng/mL) (n = 3 independent experiments). **F** IF staining and quantitative analysis of α -SMA in HSCs treated with rTGFB I (200ng/mL) alone or in combination with rPDGF-B (200ng/mL) or SU11248 (1 μ M) for 6h (n = 3 independent experiments). **G** CCK8 assay of HSCs treated with treated with rTGFB I (200ng/mL) alone or in combination with rPDGF-B (200ng/mL) or SU11248 (1 μ M) (n = 6 independent experiments). Data were presented as the mean $\pm$ SDs; scale bars, 50 μ m; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

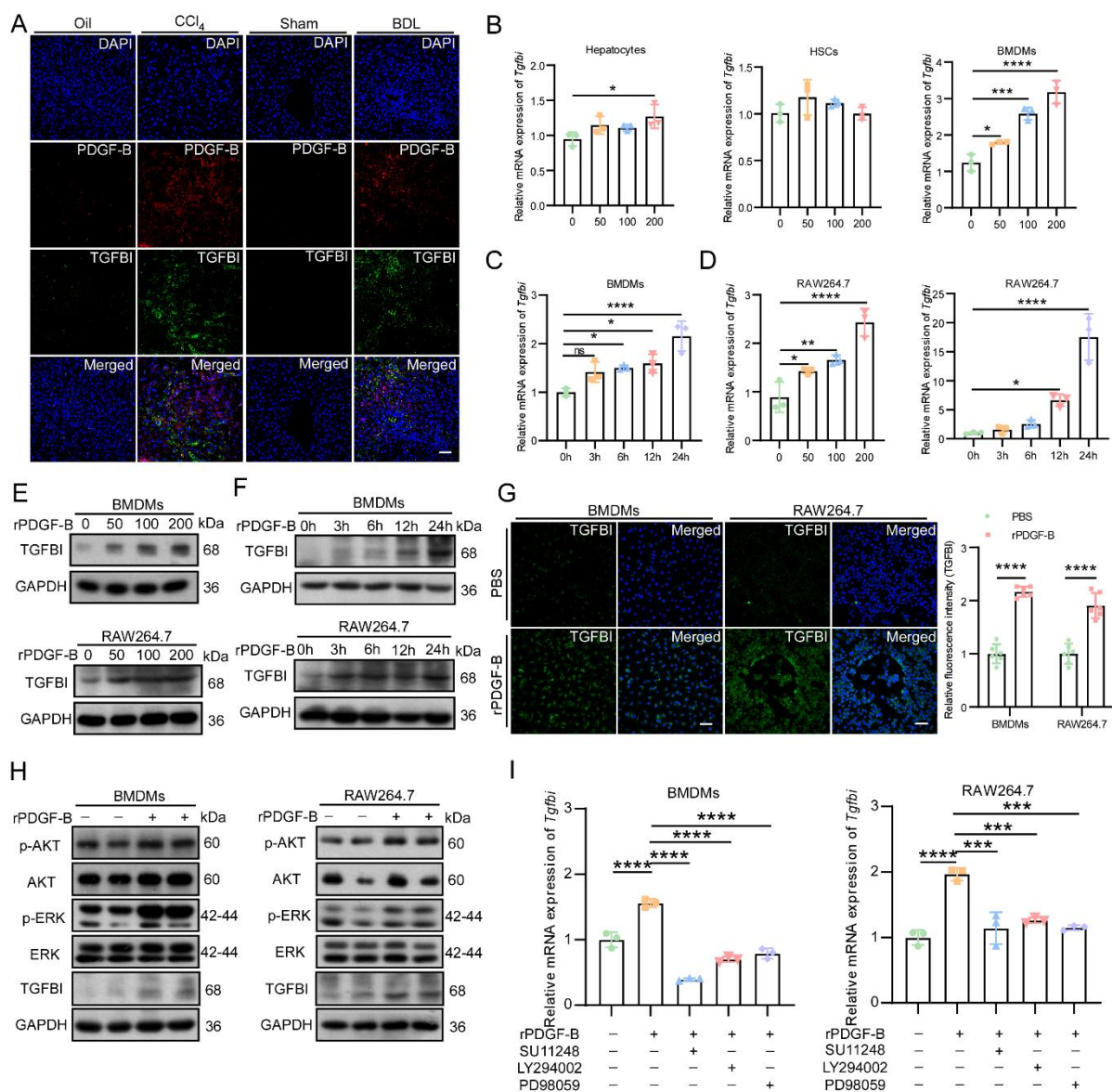
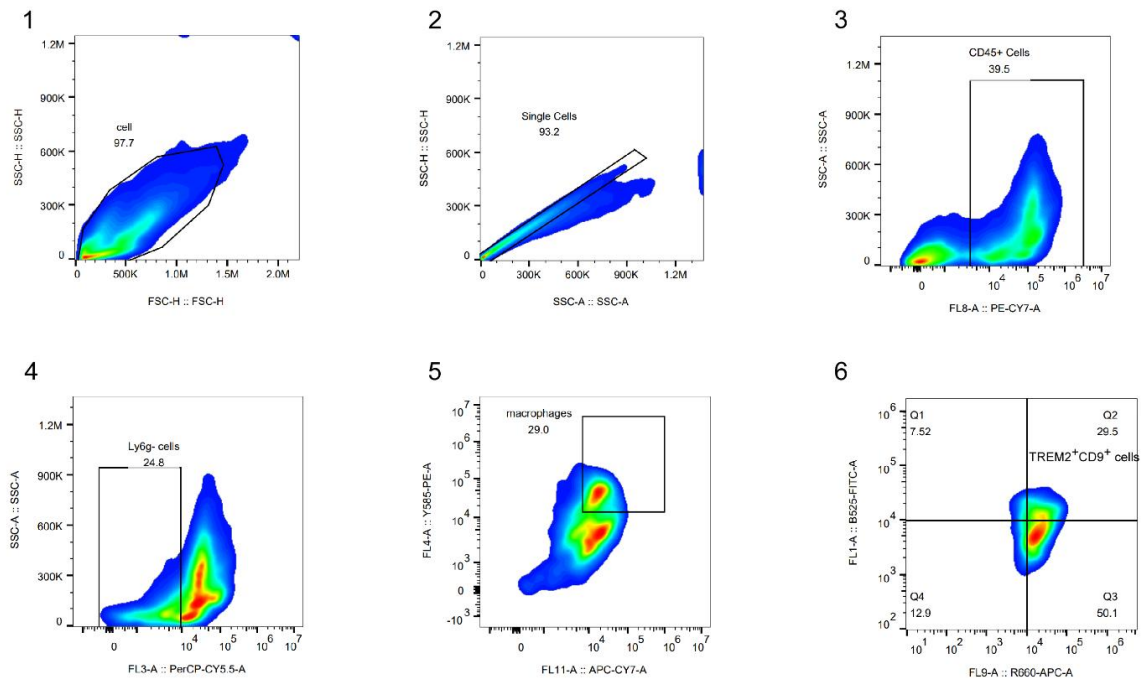


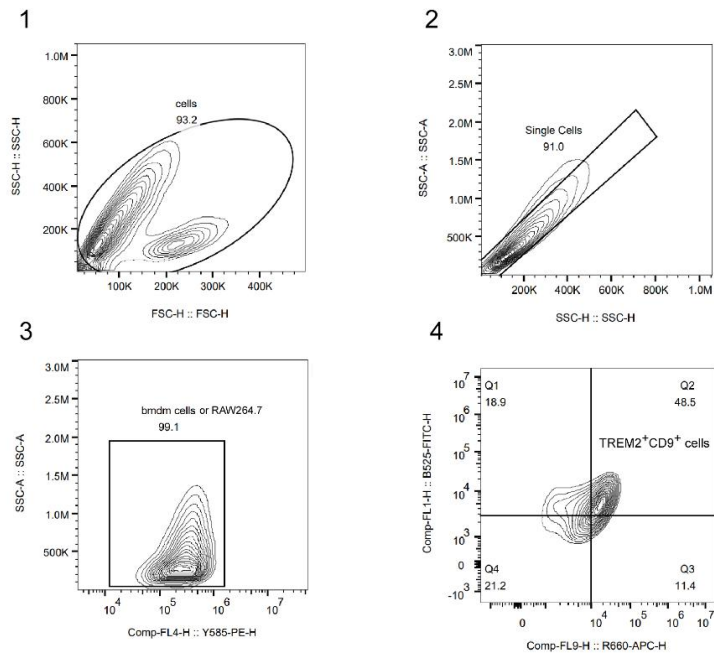
Fig S14. The up-regulation of TGFBI is attributed to PDGF-B positive feedback. **A** IF co-staining of TGFBI with PDGF-B in mouse livers of CCl₄ and BDL models. **B** RT-qPCR analysis of *Tgfb1* in primary liver parenchymal cells, HSCs and BMDM treated with rPDGF-B (200ng/mL) with the indicated concentrations for 6h (n = 3 independent experiments). **C** RT-qPCR analysis of *Tgfb1* in BMDM treated with rPDGF-B (200ng/mL) with the indicated times. **D** RT-qPCR analysis of *Tgfb1* in RAW264.7 treated with rPDGF-B (200ng/mL) for 6h (n = 3 independent experiments). **E-F** Western blot analysis of TGFBI in BMDM or RAW264.7 treated with or without rPDGF-B (200ng/mL) for 6h (n = 3 independent experiments). **G** IF staining and quantitative analysis of TGFBI in BMDM or RAW264.7 treated with or without rPDGF-B (200ng/mL) for 6h (n = 3 independent experiments). **H** Western blot analysis of the indicated proteins in BMDM or RAW264.7 treated with or without rPDGF-B (200ng/mL) for 6h (n = 3 independent experiments). **I** RT-qPCR analysis of *Tgfb1* expression in BMDM or RAW264.7 treated with rPDGF-B (200ng/mL) alone or in combination with the indicated inhibitors for 6h (n = 3 independent experiments). Mice samples (n = 4-6 per group). Data were presented as the mean ± SDs; scale bars, 50 μm; *p<0.05 **p<0.01, ***p<0.001, ****p<0.0001; ns, not significant (Student's t test).

Supplementary Figure 15

Gating strategy for flow cytometry analysis in CCl₄- and BDL-induced models.



Gating strategy for flow cytometry in BMDM and RAW264.7 cell models



Supplementary Figure 16

Fig 1D

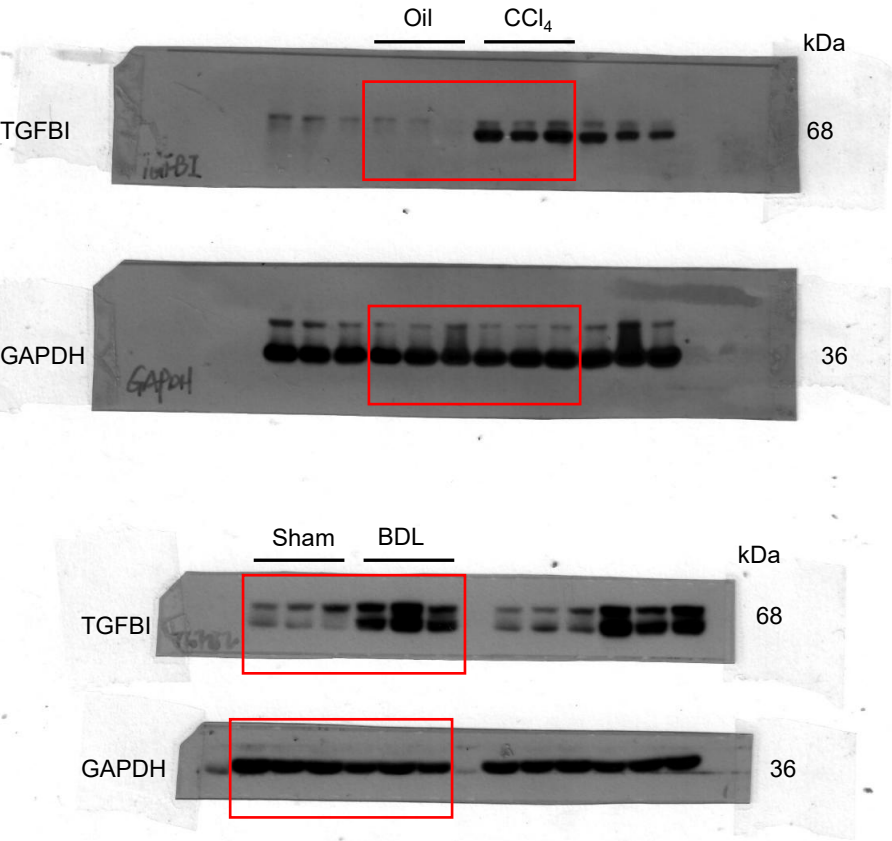


Fig 3B

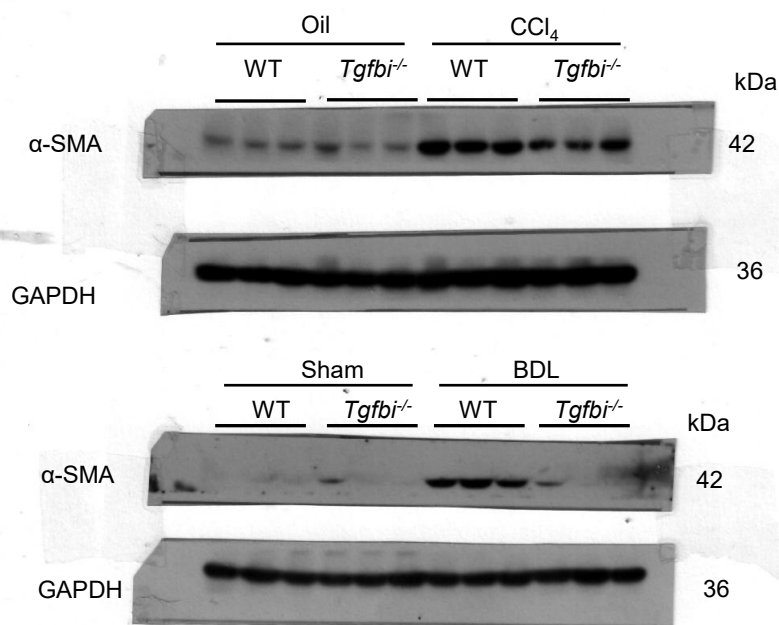


Fig 3E

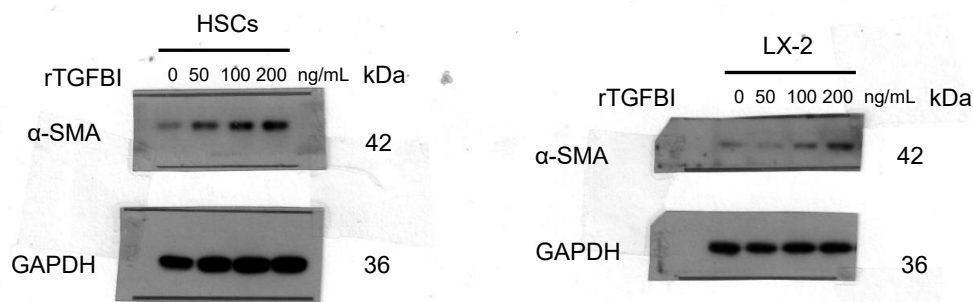


Fig 3G

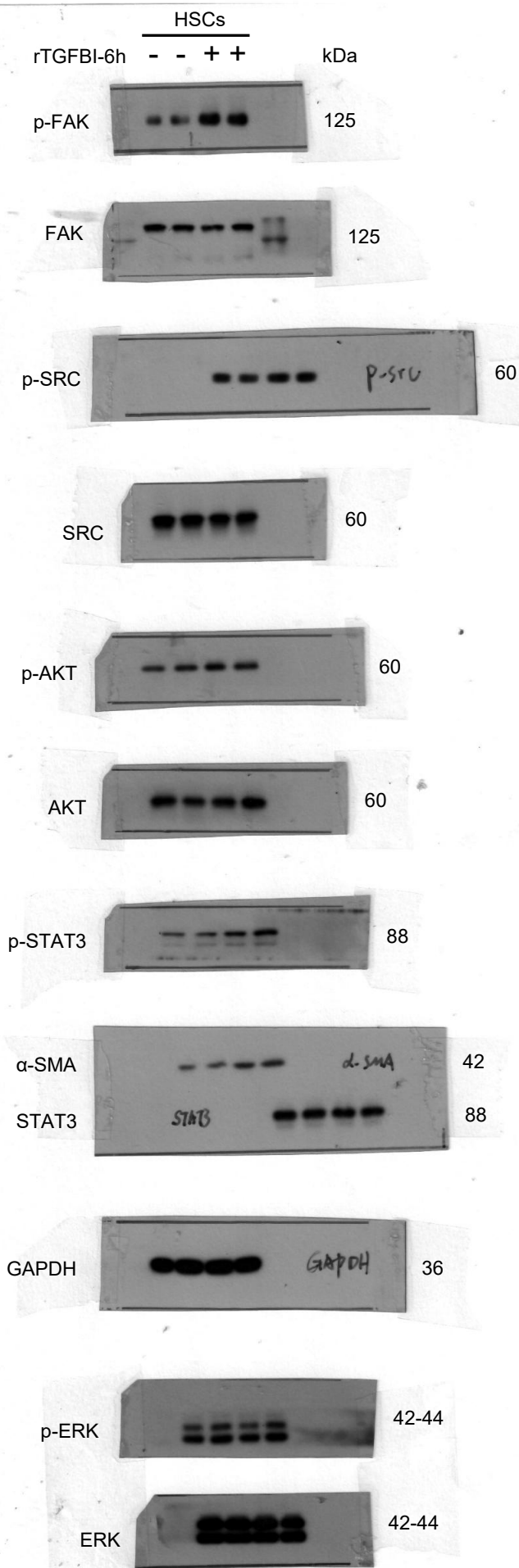


Fig 3H

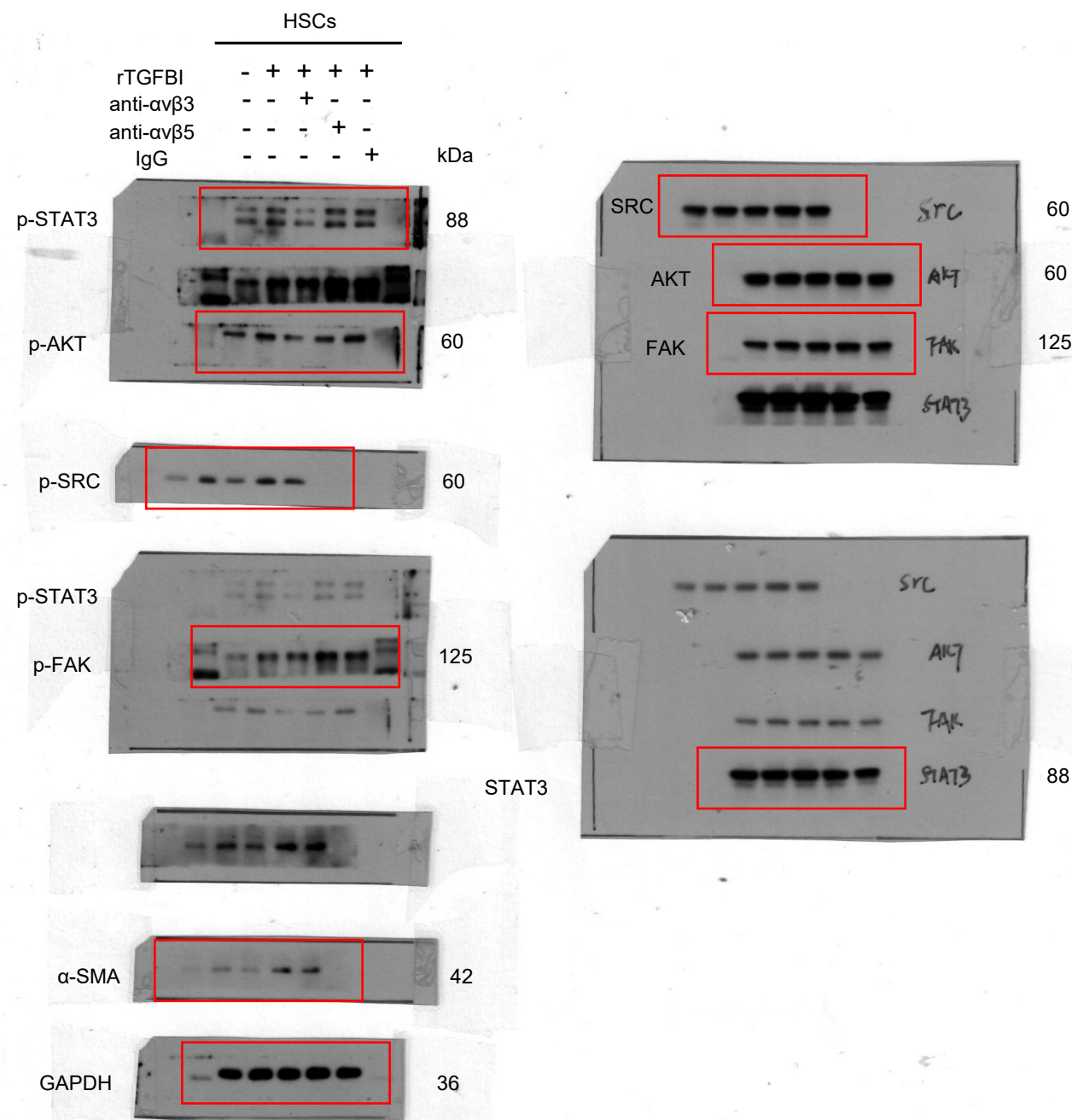


Fig 3I

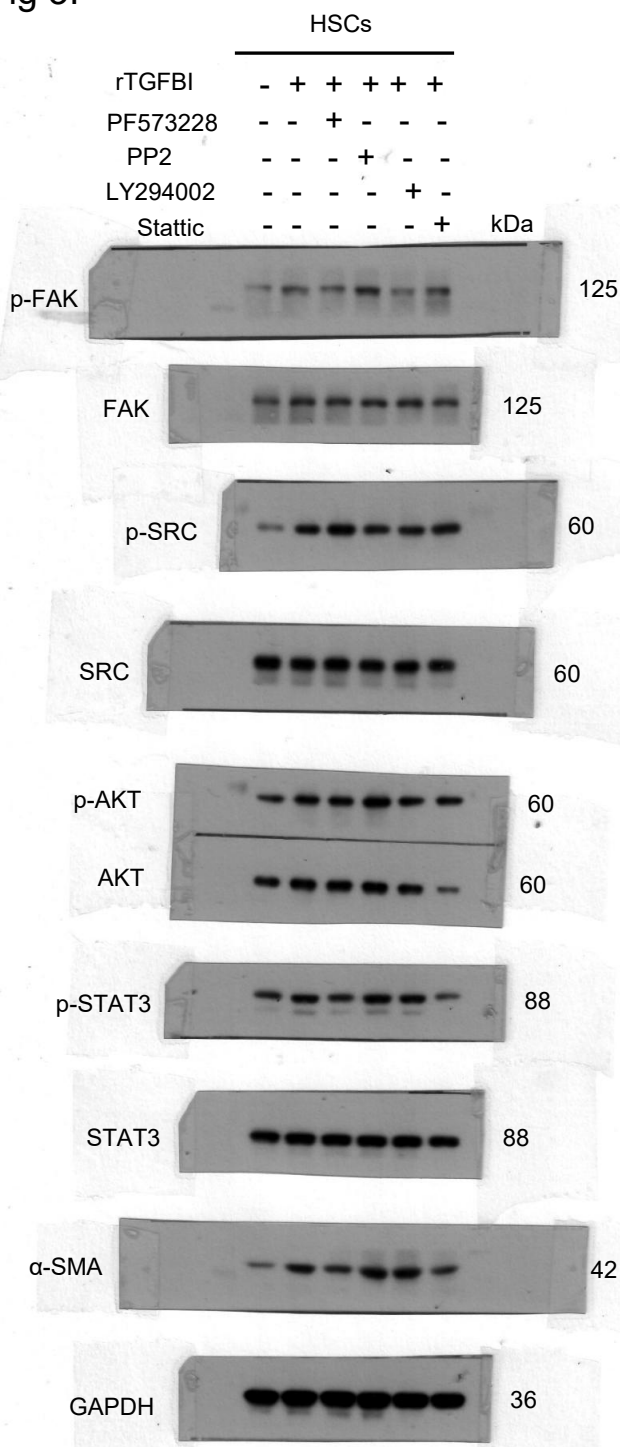


Fig 4E

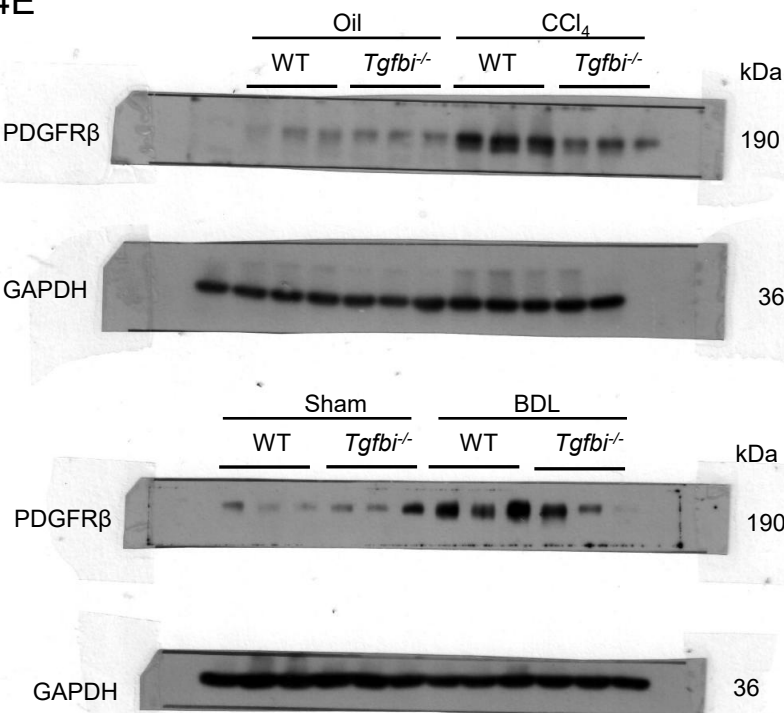


Fig 4H

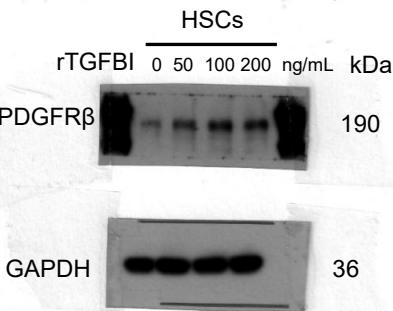


Fig 4I

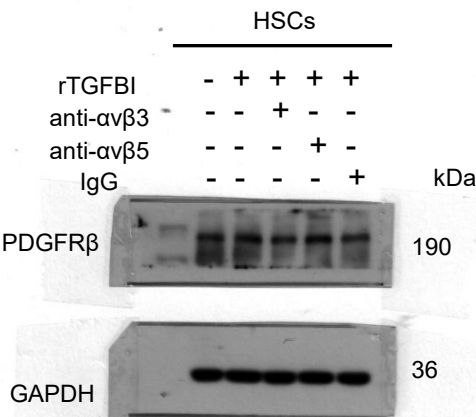


Fig 4J

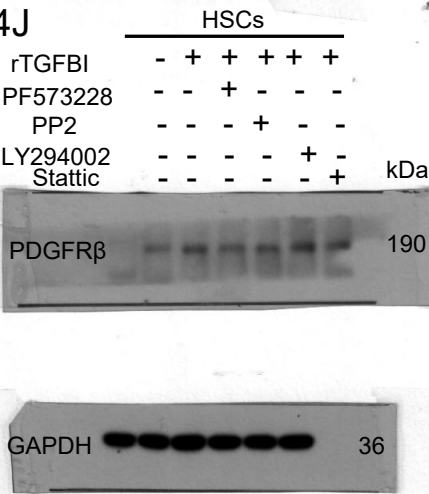


Fig 6A

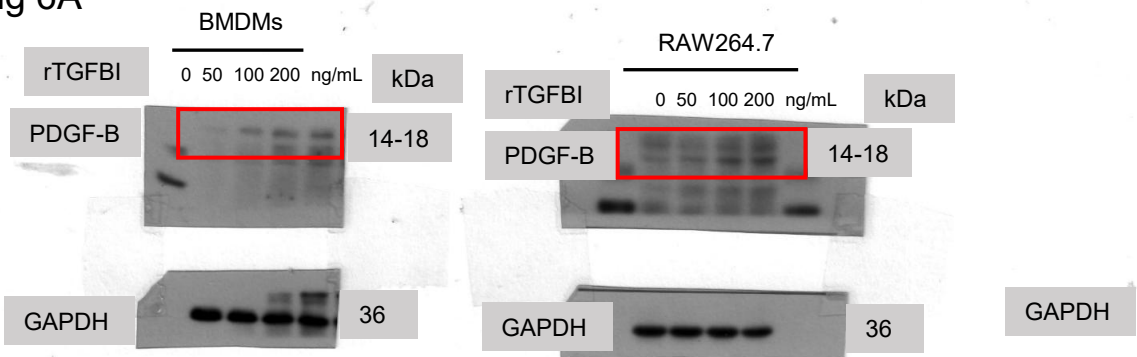


Fig 6B

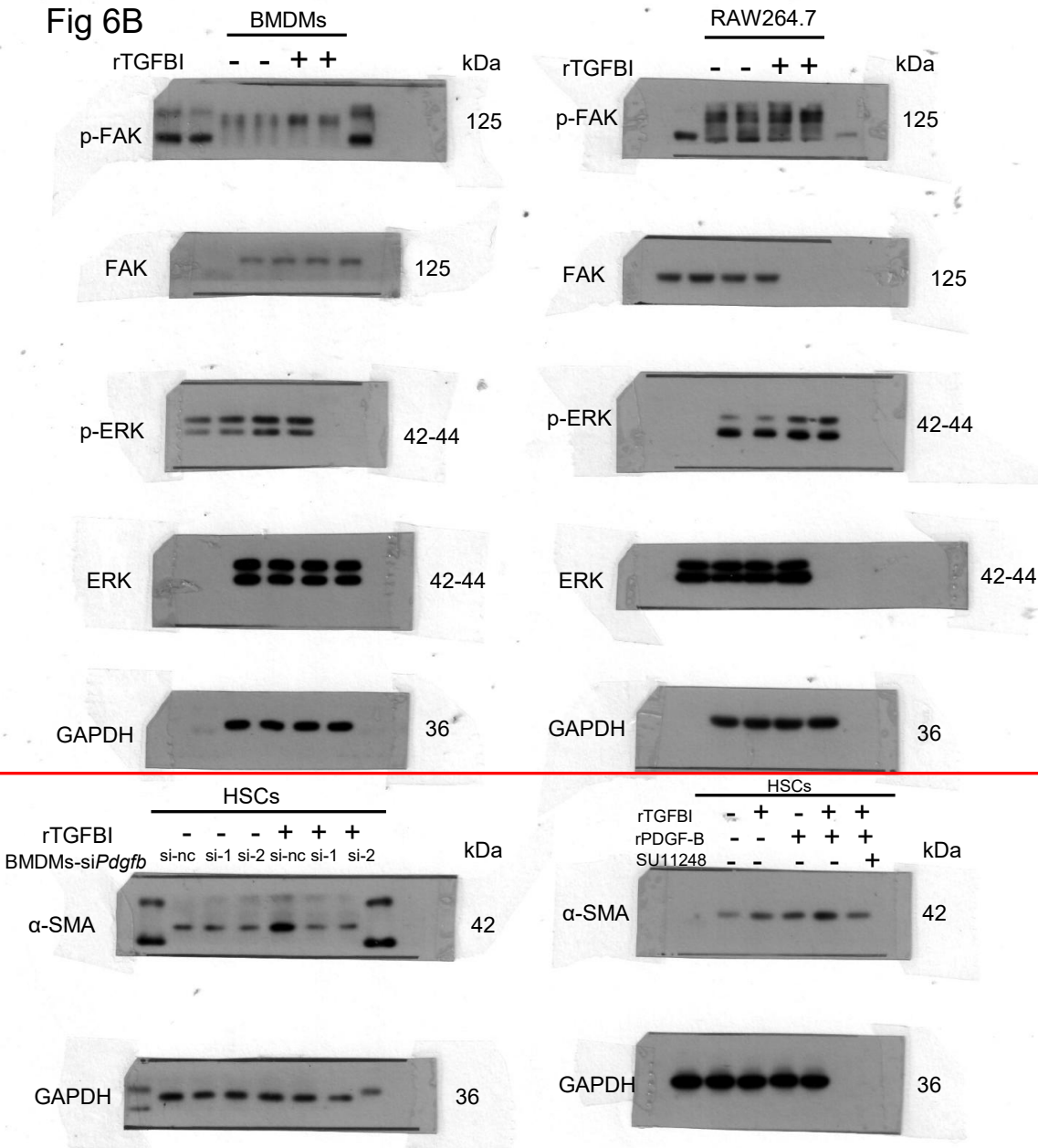


Fig 6F

Fig 6G

Fig S4B

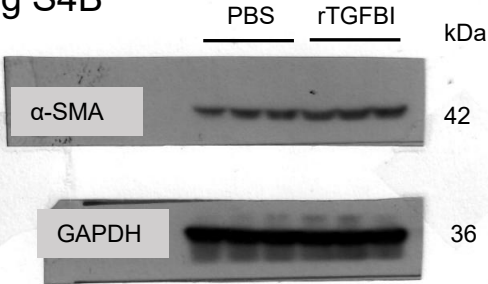


Fig S4E

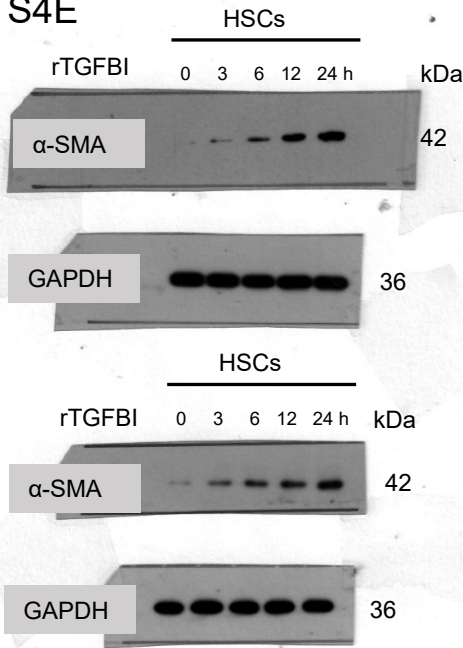


Fig S5A

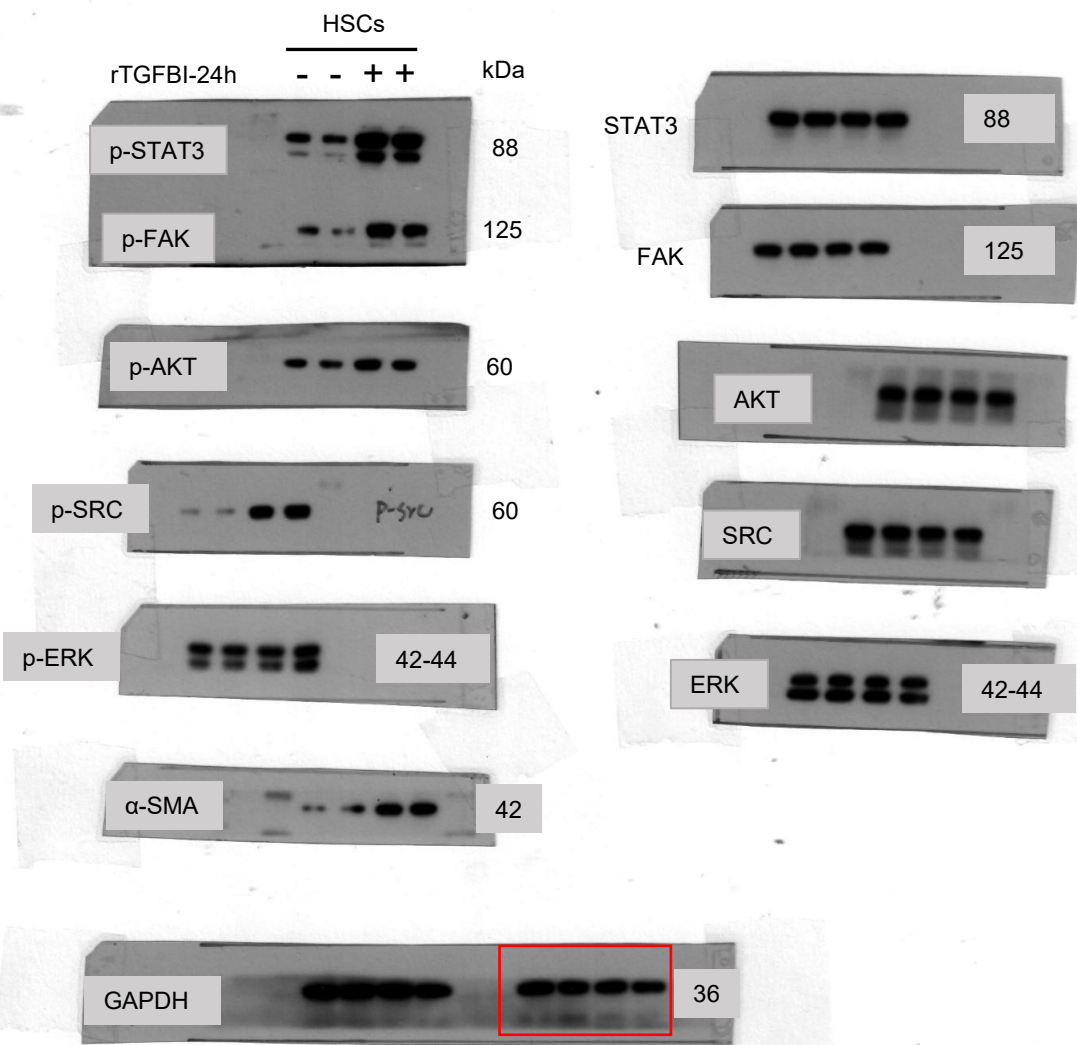


Fig S5A

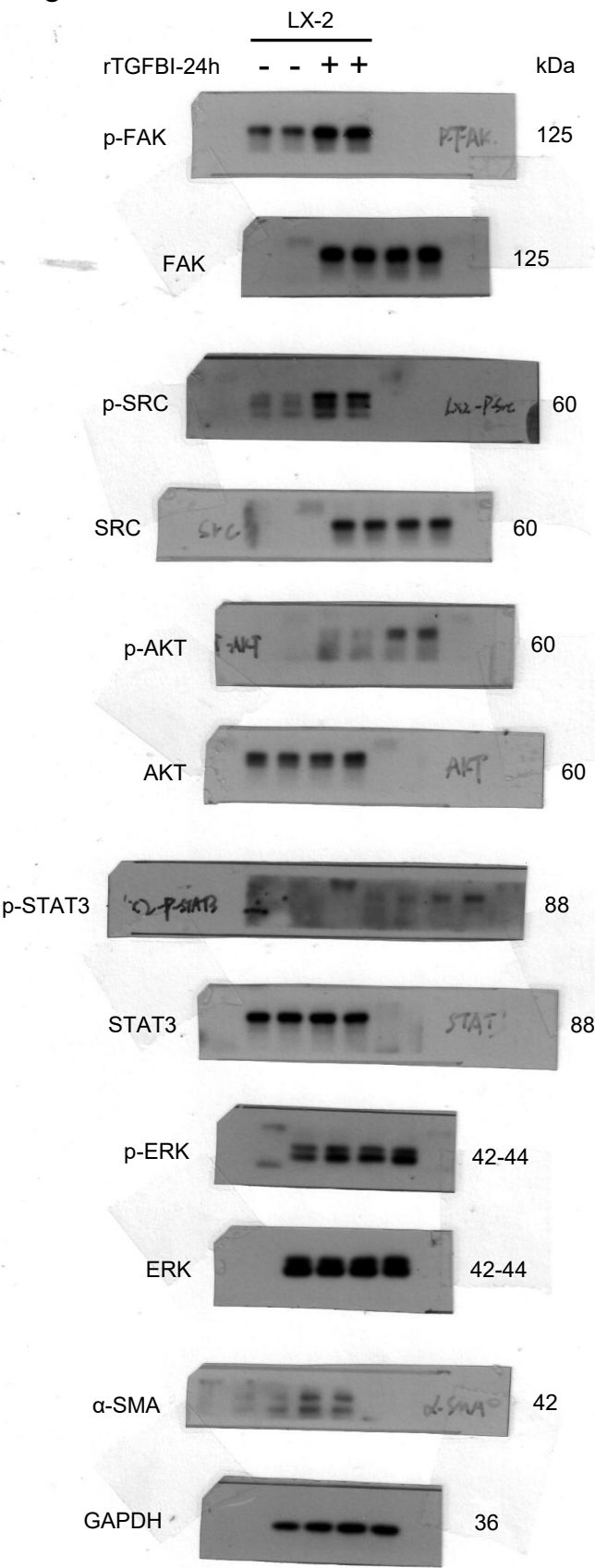
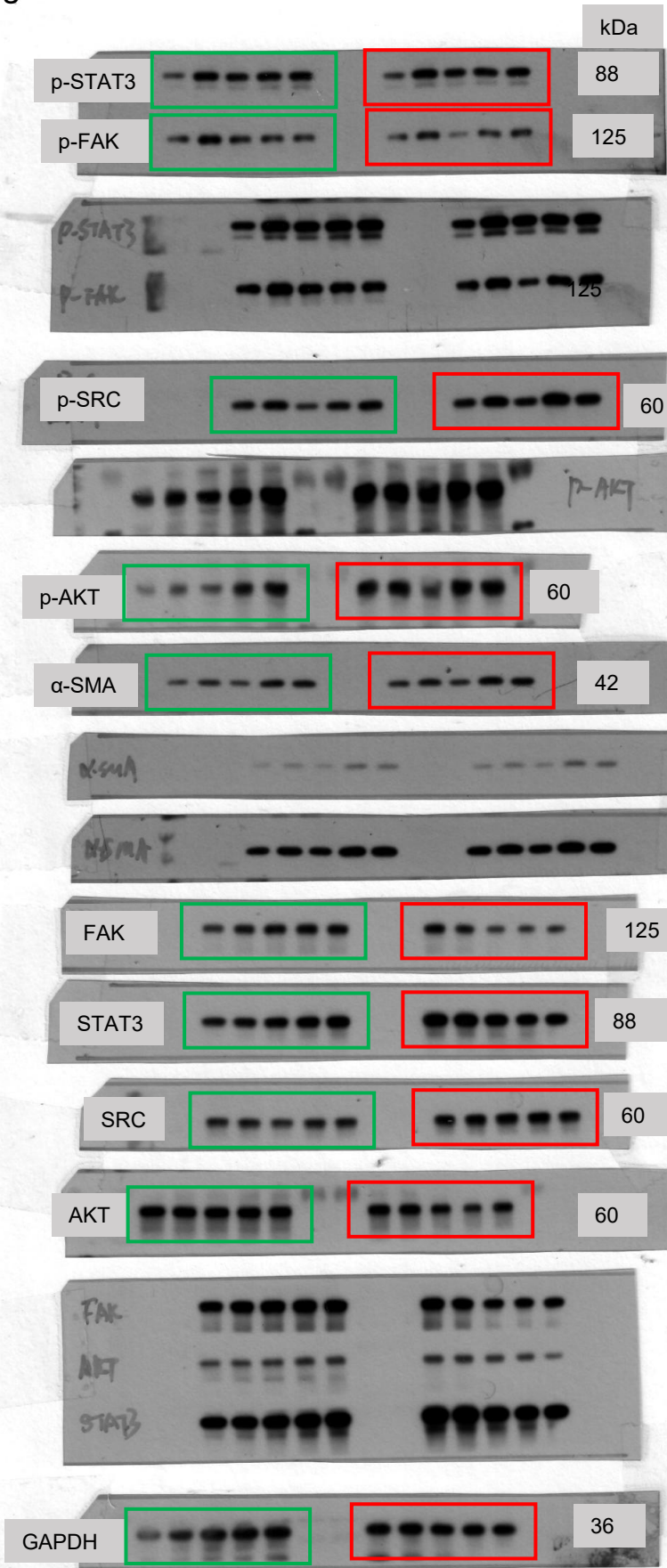


Fig S5B



	HSCs				
rTGFBI	-	+	+	+	+
si-Itgb3-1	-	-	+	-	-
si-Itgb5-1	-	-	-	-	+
si-NC	-	-	-	+	-

	HSCs				
rTGFBI	-	+	+	+	+
si-Itgb3-2	-	-	+	-	-
si-Itgb5-2	-	-	-	-	+
si-NC	-	-	-	+	-

Fig S5C

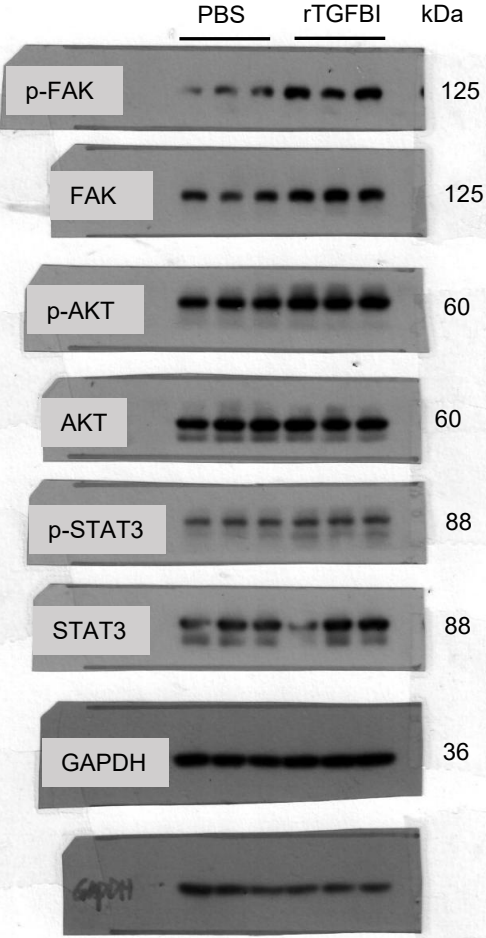


Fig S6A

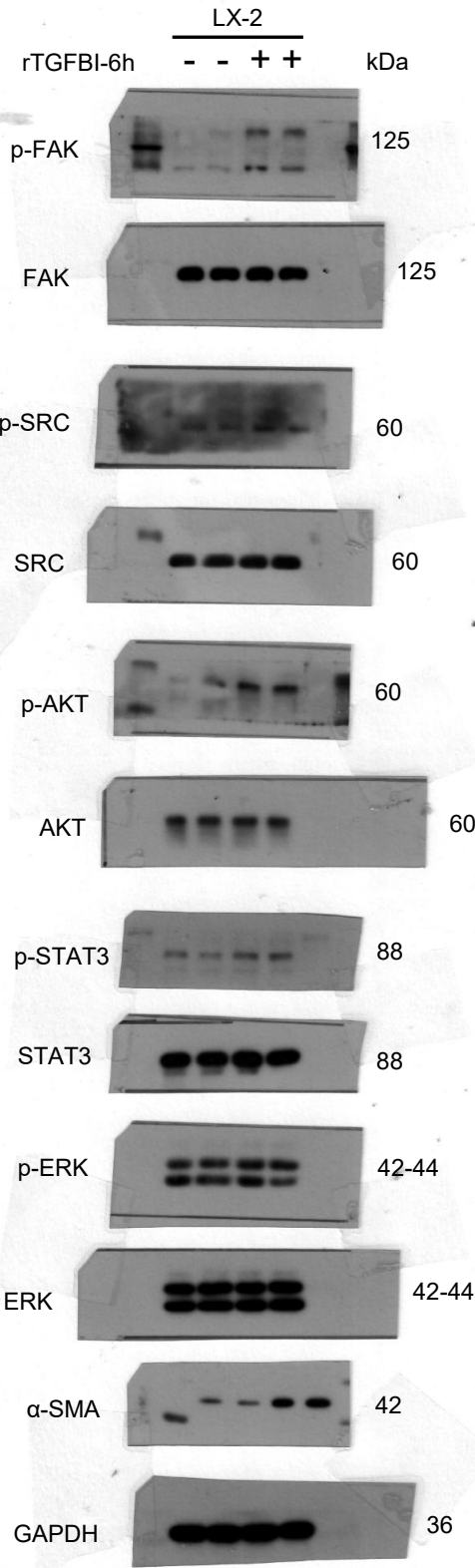


Fig S6B

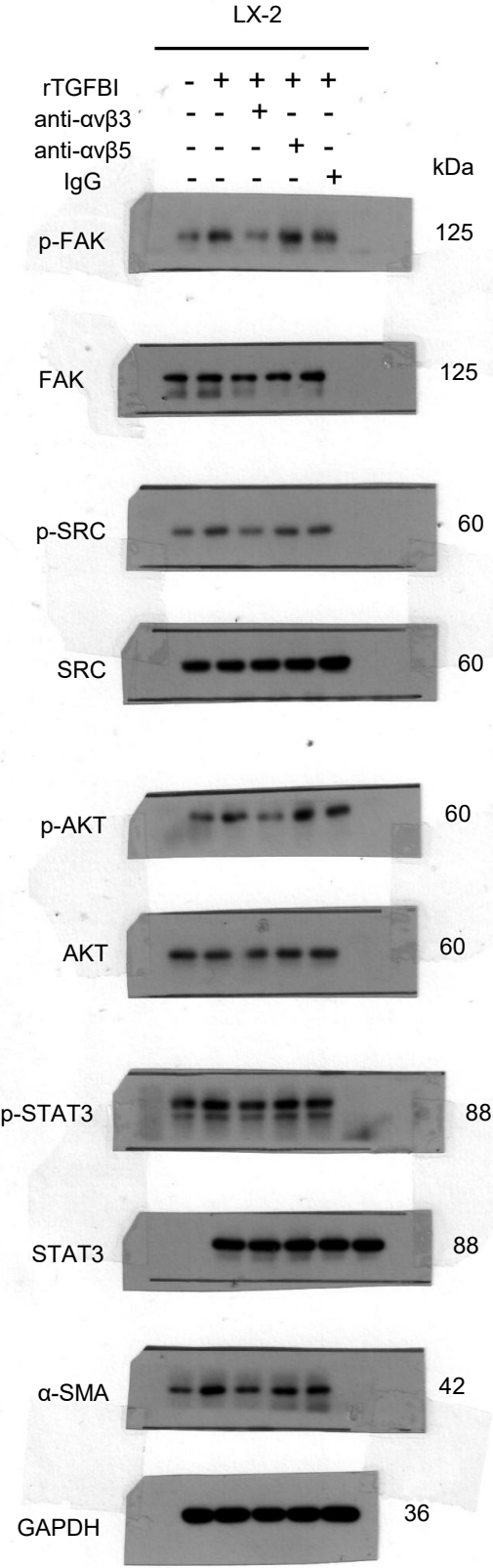


Fig S6C

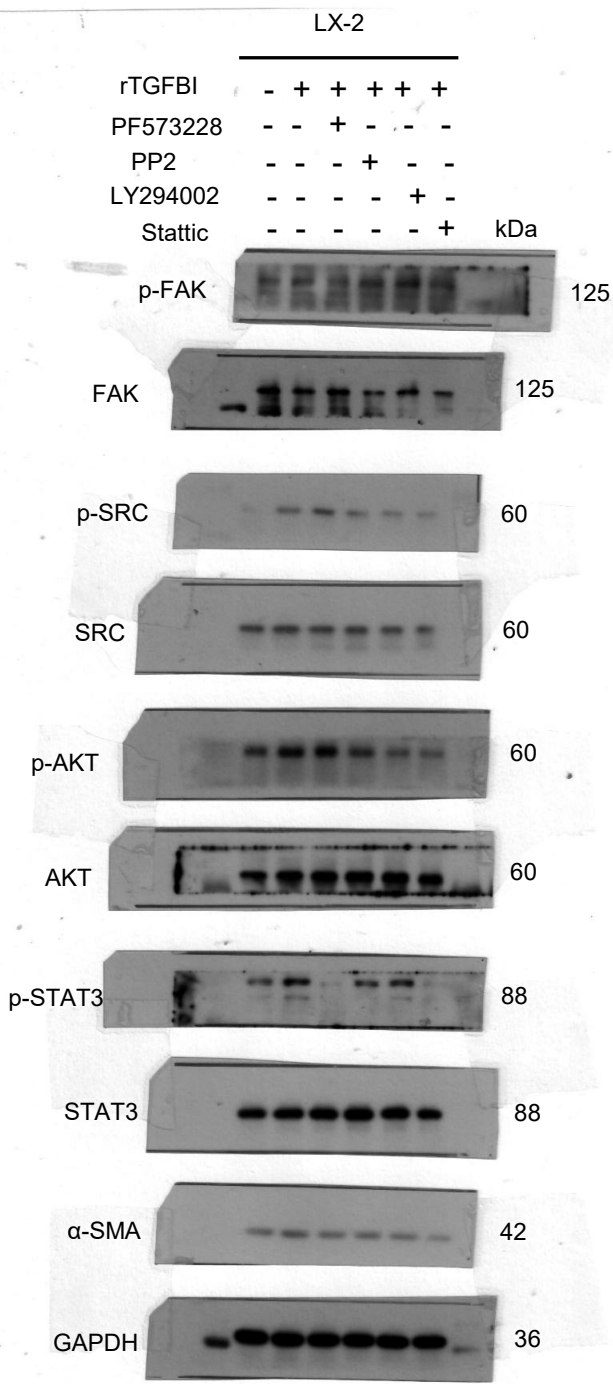


Fig S8F

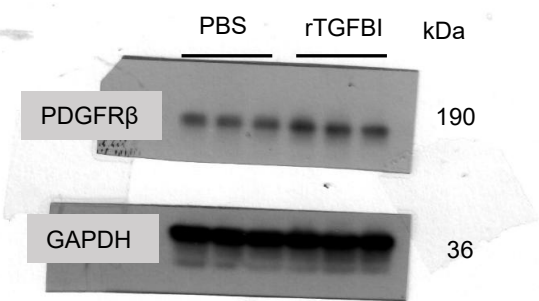


Fig S8G

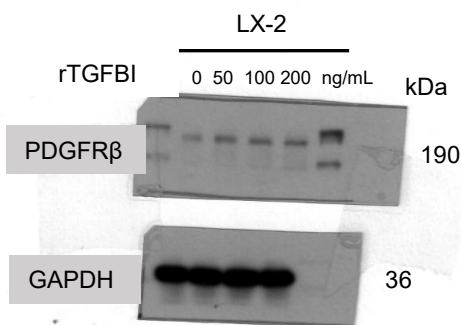


Fig S8H

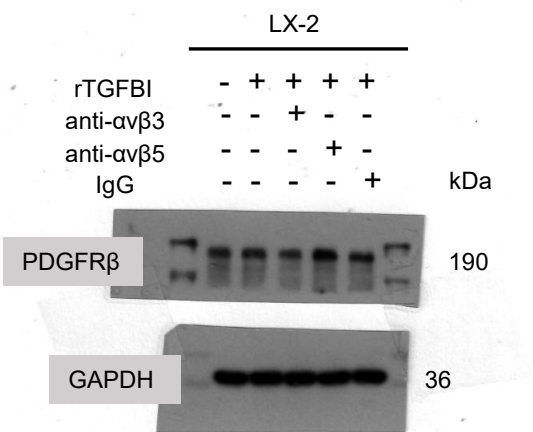


Fig S8I

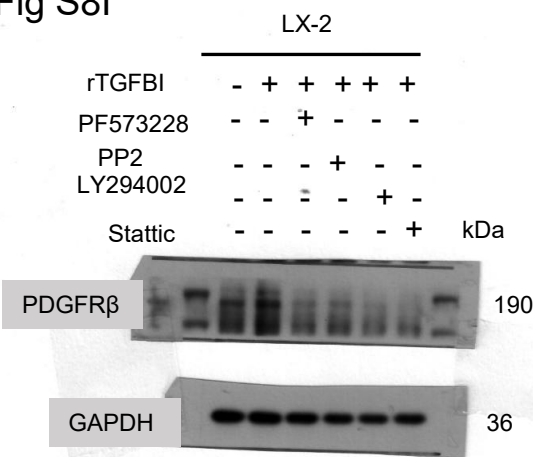


Fig S9B

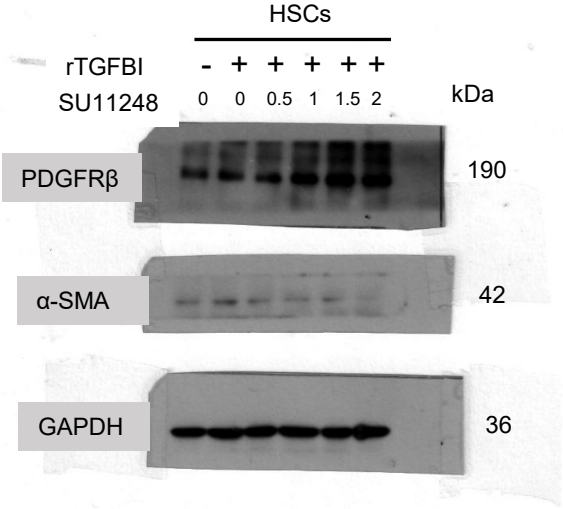


Fig S9D

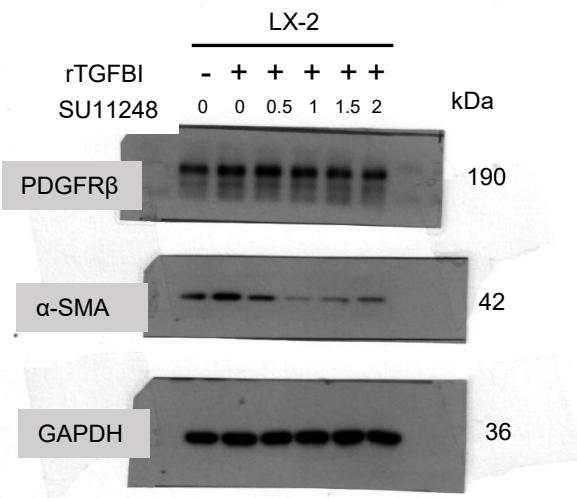


Fig S9H

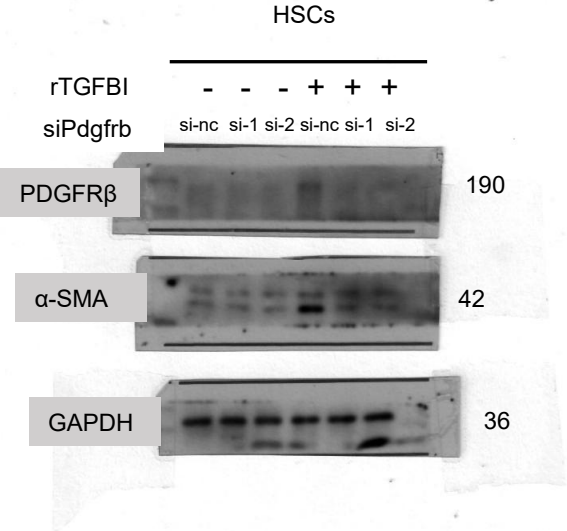


Fig S10D

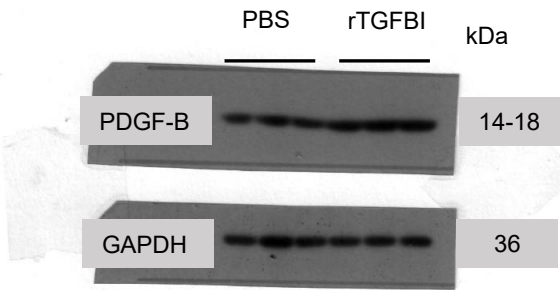


Fig S11C

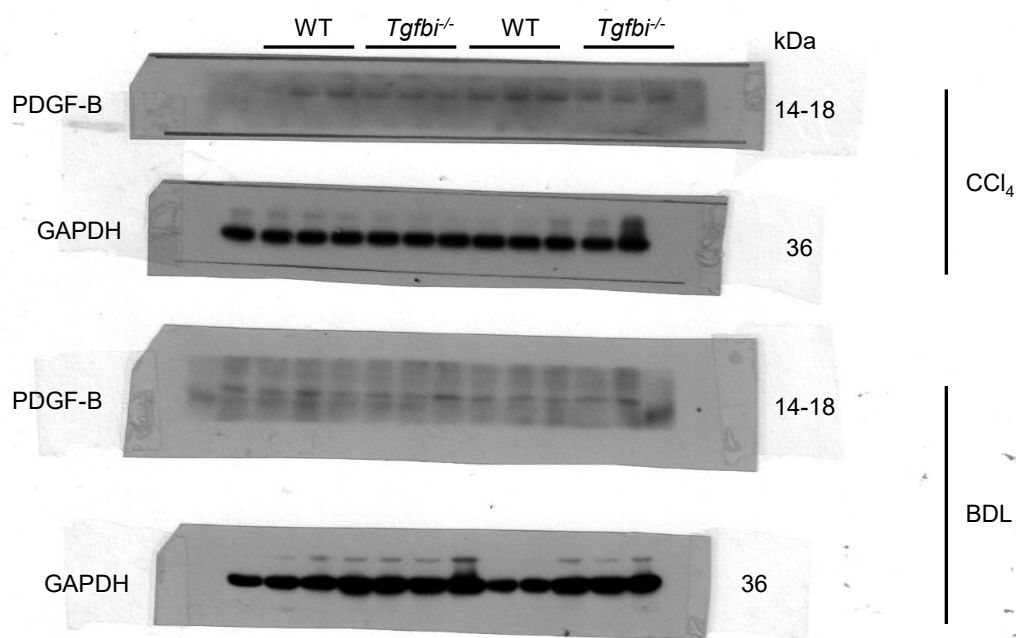


Fig S13D

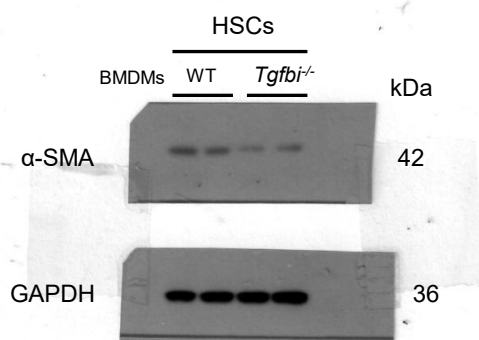


Fig S14E

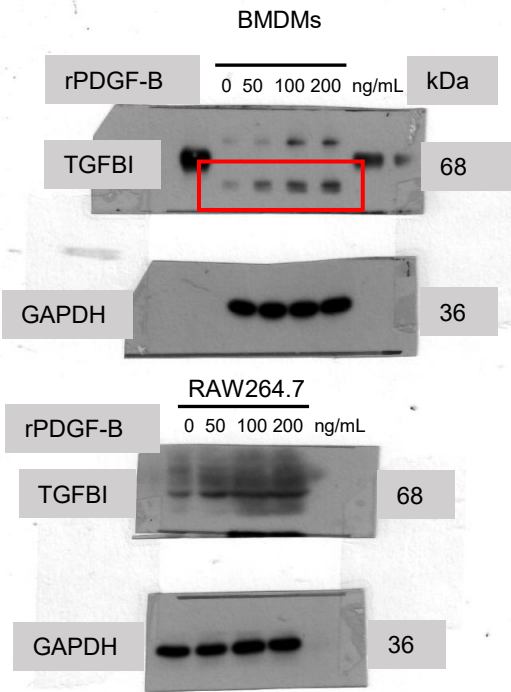


Fig S14F

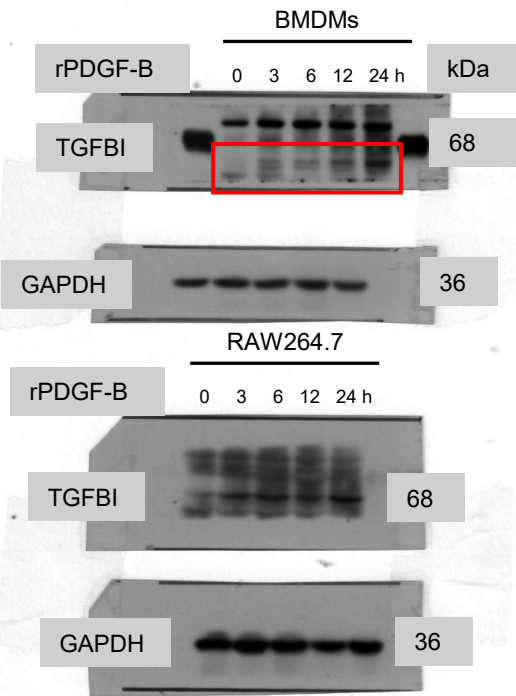
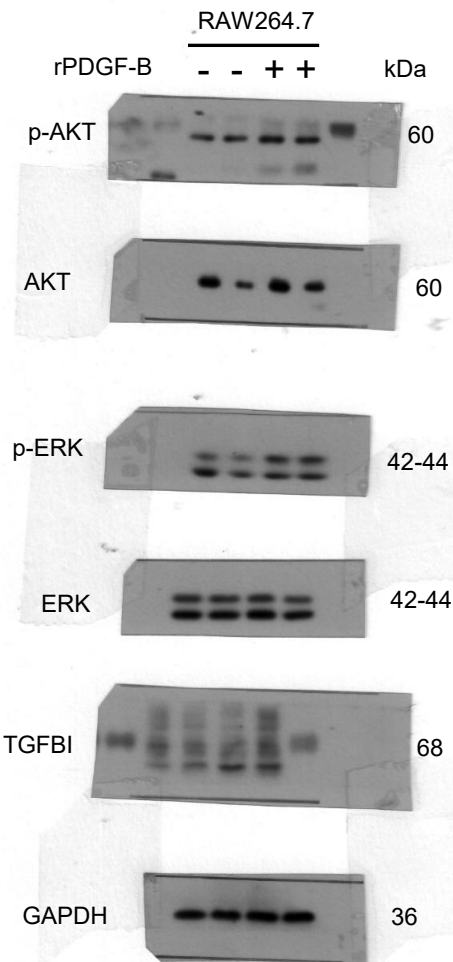
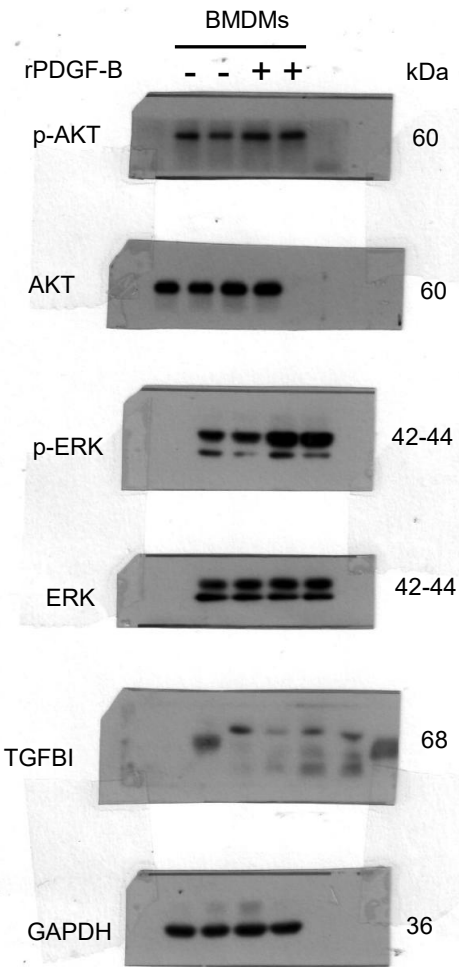


Fig S14H



Supplementary Table 1

Summary of Antibodies

Antibody Target	Company	Catalog Number	Dilution Concentration	Application
TGFBI	abcam	ab99562	1:2000 1:200	Western Blot IHC/IF
COL1A1	CST	72026T	1:2000 1:200	Western Blot IHC/IF
α -SMA	CST	19245S	1:2000 1:200	Western Blot IHC/IF
PDGFR β	CST	3169T	1:2000 1:200	Western Blot IHC/IF
PDGF-B	Biodragon	BD-PT3631	1:1000 1:100	Western Blot IHC/IF
TREM2	CST	91068T	1:100	IF
CD9	abmart	T55337	1:100 1:100	IF FACS
F4/80	Abcam	ab300421	1:100	IHC/IF
Ki67	Abcam	ab15580	1:200	IHC/IF
GAPDH	CST	2118S	1:3000	Western Blot
p-FAK	CST	3283s	1:2000	Western Blot
FAK	CST	3285s	1:2000	Western Blot
p-AKT	CST	4060S	1:2000	Western Blot
AKT	CST	4691S	1:2000	Western Blot
p-SRC	CST	2105T	1:2000	Western Blot
SRC	CST	2123T	1:2000	Western Blot

p-ERK1/2	CST	4695S	1:2000	Western Blot
ERK1/2	CST	4695S	1:2000	Western Blot
p-STAT3	CST	9145S	1:2000	Western Blot
STAT3	CST	30835S	1:2000	Western Blot
PE CD11b	Biolegend	101207	1:100	FACS
PE/Cyanine7 CD45	Biolegend	103113	1:100	FACS
APC/Cyanine7 F4/80	Biolegend	123117	1:100	FACS
Ly-6G/Ly-6C PerCP- Cyanine5.5	Thermo Fisher	45-5931-80	1:100	FACS
TREM2	Abcam	ab252876	1:10000	FACS
Goat anti- rabbit IgG , HRP	Thermo Fisher	31460	1:10000	Western Blot
Goat anti- mouse IgG , HRP	Thermo Fisher	31430	1:10000	Western Blot
Goat anti- mouse IgG (Alexa Fluor R 488)	Abcam	ab150117	1:400	IF
Donkey anti- rabbit IgG (Alexa Fluor R 647)	Abcam	ab150075	1:400	IF
Donkey anti- Rat IgG (Alexa Fluor R 568)	Abcam	ab175475	1:400	IF

Supplementary Table 2

Primers sequence

Gene Name	Forward	Reverse
Mouse		
<i>Gapdh</i>	TGTGTCCGTCGTGGATCTGA	TTGCTGTTGAAGTCGCAGGAG
<i>Tgfb1</i>	GGGACCTTTTCATATCCAGGACA	CAGCACGGCCCCAATGTAT
<i>Col1a1</i>	GAGGGCCAAGACGAAGACATC	CAGATCACGTCATCGCACAAAC
<i>Col3a1</i>	CCTGGCTCAAATGGCTCAC	CAGGACTGCCGTTATTCCCG
<i>Timp1</i>	TCTTGGTTCCCTGGCGTACTCT	GTGAGTGTCACTCTCCAGTTTGC
<i>Ccl2</i>	TTAAAAACCTGGATCGGAACCAA	GCATTAGCTTCAGATTACGGGT
<i>Il6</i>	GCTAAGGACCAAGACCATCCAAT	GGCATAACGCACTAGGTTTGC
<i>Tnf-a</i>	GCCAACGGCATGGATCTC	GCAGCCTTGTCCTTGAAGAG
<i>Acta2</i>	GTCCCAGACATCAGGGAGTAA	TCGGATACTTCAGCGTCAGGA
<i>Pdgfr-b</i>	CAGAAGTAGCGAGAAGCAA	ATCACCGTATCGGCAGTA
<i>Pdgfb</i>	CACCAACGCCAACTTCCT	TTCGCACAATCTCAATCTTTCT
<i>Trem2</i>	CTGGAACCGTCACCATCACTC	CGAAACTCGATGACTCCTCGG
<i>Cd9</i>	ATGCCGGTCAAAGGAGGTAG	GCCATAGTCCAATAGCAAGCA
Human		
<i>Gapdh</i>	GAAAGCCTGCCGGTGACTAA	GCCCAATACGACCAAATCAGAG A
<i>Acta2</i>	CTATGAGGGCTATGCCTTGCC	GCTCAGCAGTAGTAACGAAGGA

<i>Colla1</i>	TCCAAACCACTGAAACCTCTG	CCCCTGGAAAGAATGGAGATG
<i>Pdgfrb</i>	AGCACCTTCGTTCTGACCTG	TATTCTCCCGTGTCTAGCCCA
siRNA	Sense	Anti-sense
<i>siPdgfrb-1</i>	/rC//rC//rU//rU//rC//rA//rA//rG//rC//rU //rG//rC//rA//rG//rG//rU//rC//rA//rA/T T	/rU//rU//rG//rA//rC//rC//rU//rG//rC//r A//rG//rC//rU//rU//rG//rA//rA//rG//rG/ TT
<i>siPdgfrb-2</i>	/rG//rG//rU//rG//rC//rA//rU//rU//rG//rU //rG//rA//rU//rG//rG//rG//rC//rA//rA/T T	/rU//rU//rG//rC//rC//rC//rA//rU//rC//r A//rC//rA//rA//rU//rG//rC//rA//rC//rC/ TT
<i>siPdgfrb-3</i>	/rG//rG//rA//rU//rG//rU//rC//rA//rC//rU //rG//rA//rG//rA//rC//rG//rA//rC//rA/T T	/rU//rG//rU//rC//rG//rU//rC//rU//rC//r A//rG//rU//rG//rA//rC//rA//rU//rC//rC/ TT
<i>siPdgfb-1</i>	/rG//rG//rC//rA//rA//rG//rC//rA//rC//rC //rG//rA//rA//rA//rG//rU//rU//rU//rA/T T	/rU//rA//rA//rA//rC//rU//rU//rU//rC//r G//rG//rU//rG//rC//rU//rU//rG//rC//rC/ TT
<i>siPdgfb-2</i>	/rA//rG//rA//rU//rU//rG//rA//rG//rA//rU //rU//rG//rU//rG//rC//rG//rA//rA//rA/T T	/rU//rU//rU//rC//rG//rC//rA//rC//rA//r A//rU//rC//rU//rC//rA//rA//rU//rC//rU/ TT
<i>siPdgfb-3</i>	/rC//rA//rG//rA//rG//rA//rC//rU//rC//rC //rG//rU//rA//rG//rA//rU//rG//rA//rA/T T	/rU//rU//rC//rA//rU//rC//rU//rA//rC//r G//rG//rA//rG//rU//rC//rU//rC//rU//rG/ TT
<i>siItgb3-1</i>	GGCGGGCGUUGUUGUUGGA/dT// dT/	UCCAACAACAACGCCCGCC/dT// dT/
<i>siItgb3-2</i>	GGAGAGUCCAACAUCUGUA/dT// dT/	UACAGAUUGUUGGACUCUCC/dT// dT/
<i>siItgb3-3</i>	GAAGGACAAUUGUGCUCCA/dT// dT/	UGGAGCACAAUUGUCCUUC/dT// dT/
<i>siItgb5-1</i>	GGUGUGACCUGAAGGCAAA/dT// dT/	UUUGCCUUCAGGUCACACC/dT// dT/
<i>siItgb5-2</i>	GUGUAUUGGUUACAAGUUA/dT// dT/	UAACUUGUAACCAAUACAC/dT// dT/
<i>siItgb5-3</i>	GGUGGAGGACUACCCUGUA/dT// dT/	UACAGGGUAGUCCUCCACC/dT// dT/