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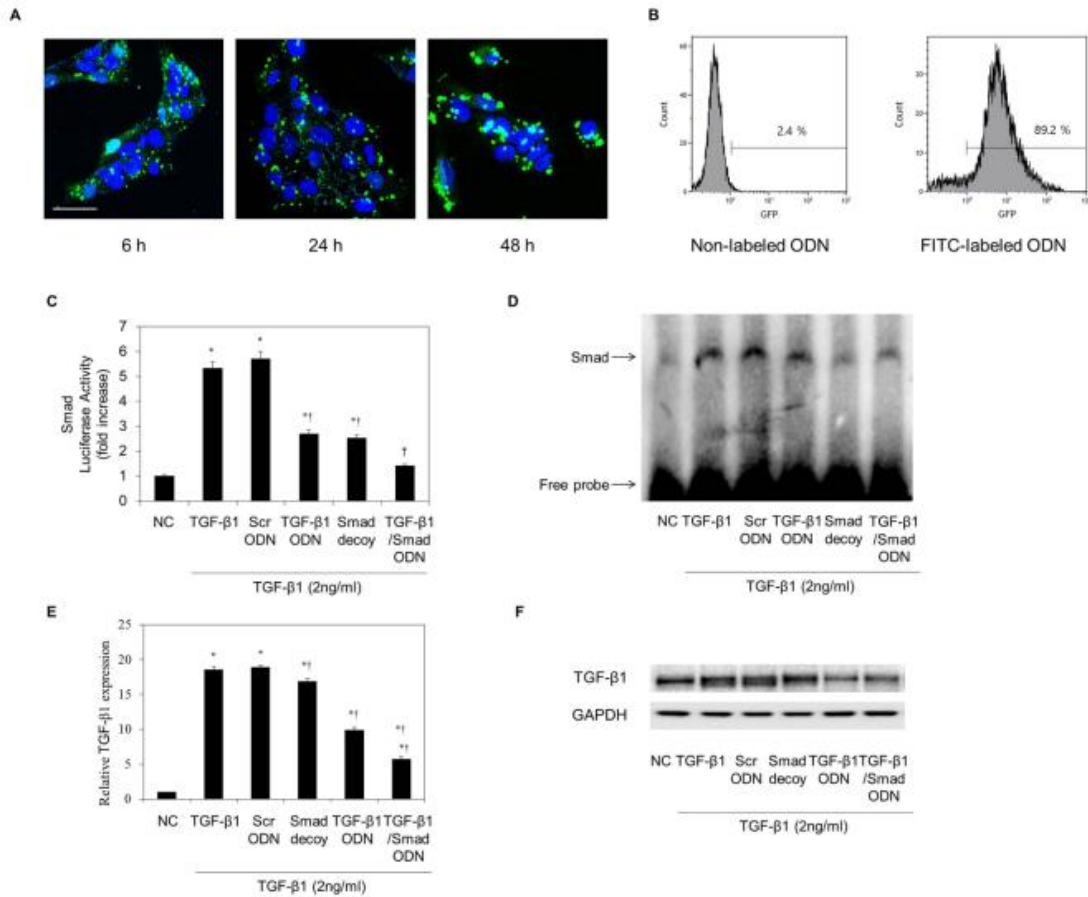
Supplemental Information

Anti-fibrotic Effects of Synthetic

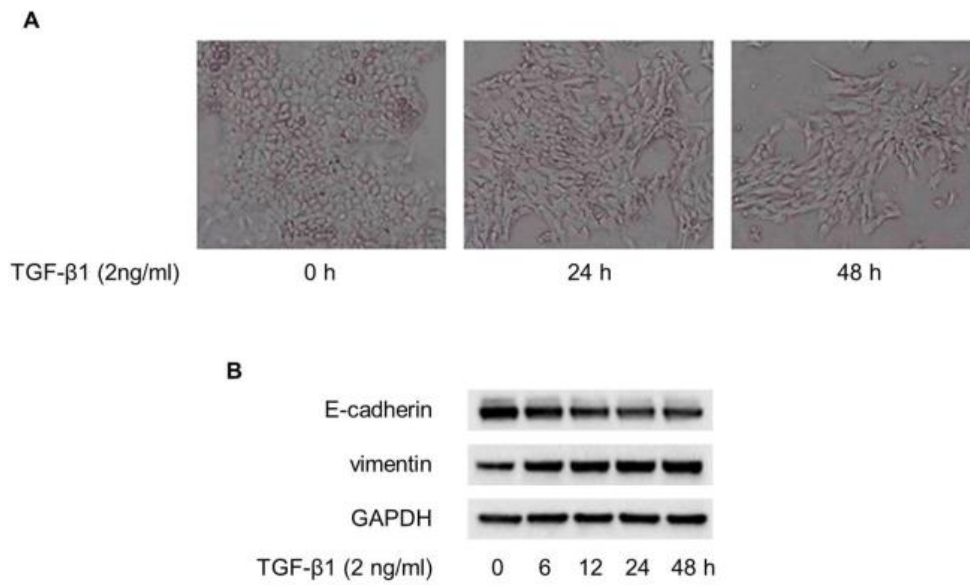
Oligodeoxynucleotide for TGF- β 1 and Smad

in an Animal Model of Liver Cirrhosis

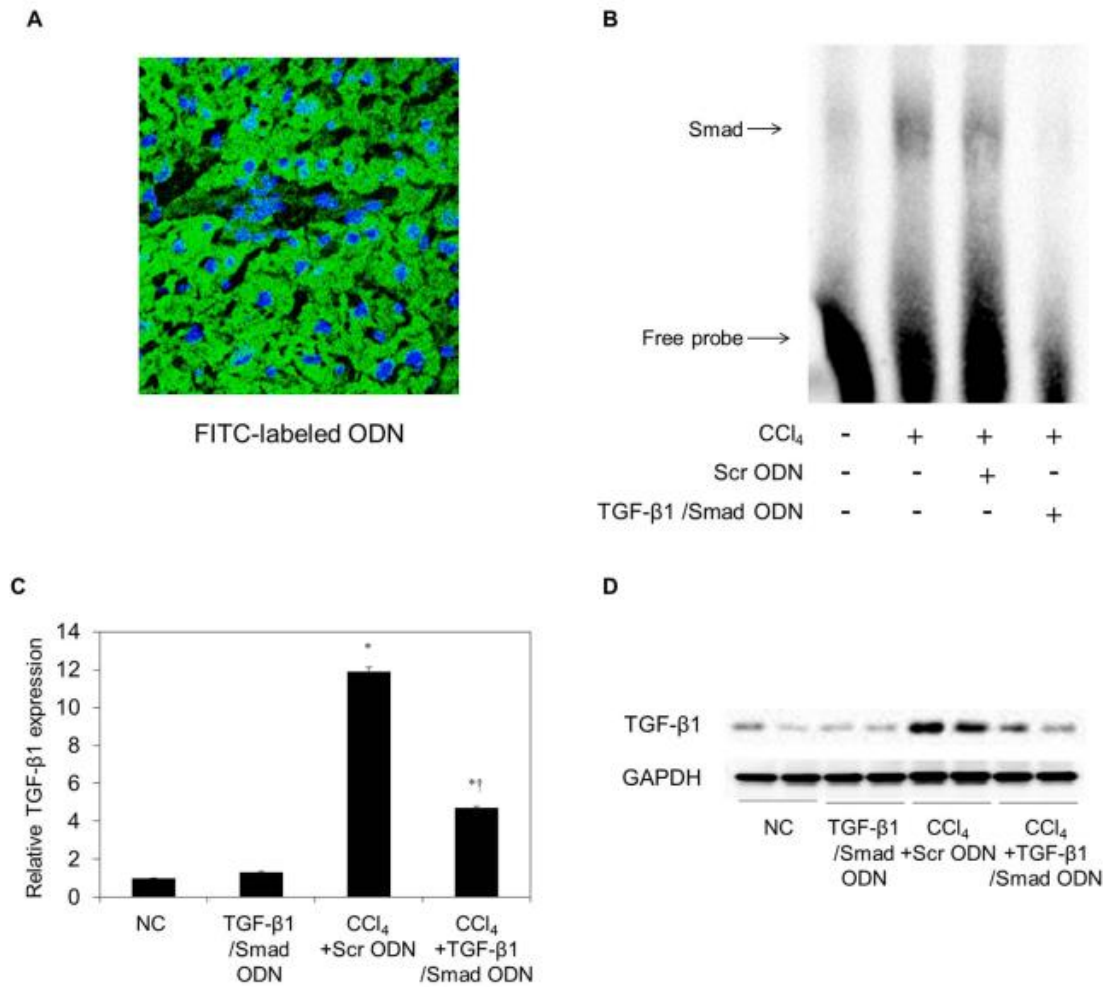
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Supplementary fig. 1. Confirmation of FITC-labeled TGF-β1/Smad ODN in AML12 cells. (A) Fluorescence activity was detected in both cytoplasm and nucleus with FITC-labeled ODN deposition. Scale bar; 50 μm. (B) Transfection efficiency of FITC-labeled TGF-β1/Smad ODN through flow cytometry. Effect of Smad decoy, TGF-β1 antisense ODN and TGF-β1/Smad ODN on Smad transcription activity and expression levels of TGF-β1 in AML12 cells. (C) Luciferases activity in TGF-β1-treated AML12 cells, (D) electrophoretic mobility shift assay (EMSA), (E) Real-time PCR and (F) Western blot assay. * $p < 0.05$ versus Normal control. † $p < 0.05$ versus TGF-β1-treated group.



Supplementary fig. 2. TGF- β 1 was capable on inducing EMT in AML12 cells. (A) Time effects of TGF- β 1 on EMT were examined by morphologic changes in AML12 cells treated with 2 ng/ml of TGF- β 1. (B) Time effects of TGF- β 1 on the expression of EMT marker (E-cadherin and vimentin) by Western blotting.



Supplementary fig. 3. Confirmation of TGF-β1/Smad ODN on CCl₄-induced mouse model. (A) Green fluorescence in liver of mice transfected with FITC-labeled TGF-β1/Smad ODN. Original magnification, ×200. (B) TGF-β1/Smad ODN decrease Smad binding activity. Representative results of electrophoretic mobility shift assay for Smad binding sites after 8 weeks of CCl₄ administration. TGF-β1/Smad ODN diminish expression of TGF-β1 in CCl₄-induced mouse liver tissue. (C) Real-time PCR and (D) Western blotting. * $p < 0.05$ versus Normal control. † $p < 0.05$ versus CCl₄+Scr ODN treated group.