

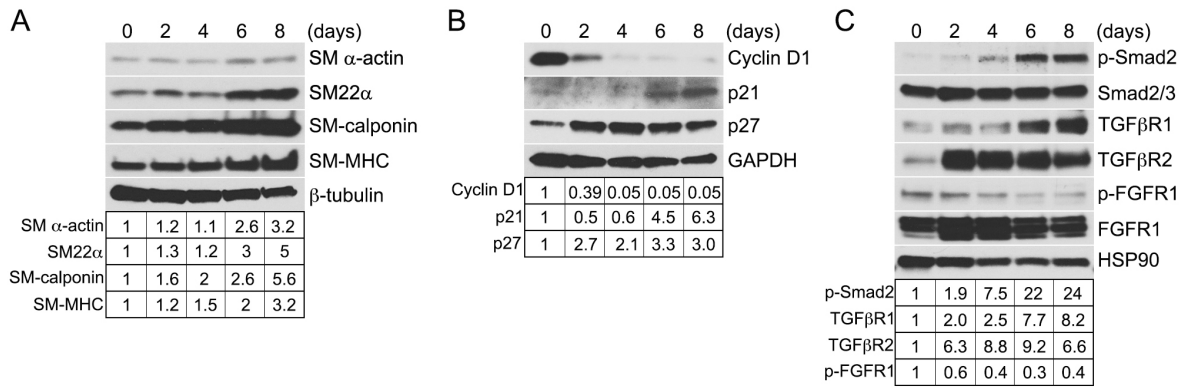
Fibroblast growth factor (FGF) signaling regulates transforming growth factor beta (TGF β)-dependent smooth muscle cell phenotype modulation

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Supplementary Figures:

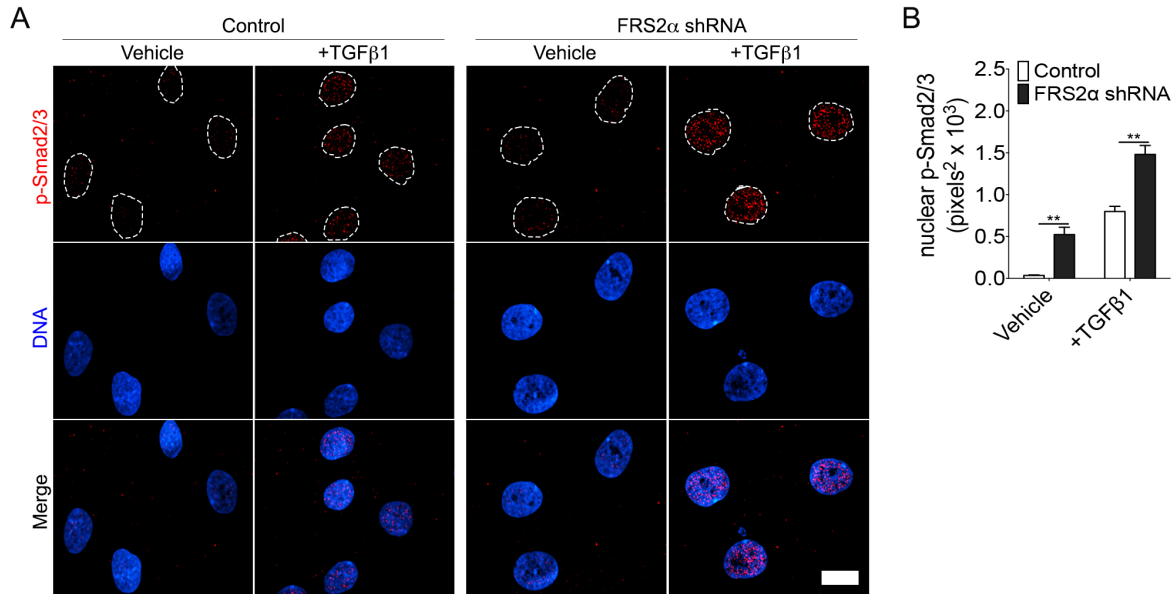
Supplementary Figure S1

Supplementary Figure S2



Supplementary Figure 1: FGF activity is downregulated and TGF β signaling is upregulated during primary mouse vascular smooth muscle cell (VSMC) differentiation.

Mouse VSMCs were cultured in the growth medium (Claycomb + 10% FBS) at day 0 then were switched from growth medium to differentiation medium (DMEM + 0.5% FBS) for 8 days. (A-C) Upper panels: Immunoblot analysis of smooth muscle markers, cell cycle regulators (Cyclin D1, p21, p27), FGF, and TGF β pathways in mouse VSMCs. Blots are representative of three independent experiments. Bottom panels: Band intensities of SM α -actin, SM22 α , SM-calponin, SM-MHC, Cyclin D1, p21, p27, p-Smad2, TGF β R1, TGF β R2, and p-FGFR1 were normalized to β -tubulin, GAPDH, HSP90, Smad2, or FGFR1 and expressed as a fraction of a control value.



Supplementary Figure 2: FRS2 α knockdown increases TGF β signaling in primary human aortic smooth muscle cells (HASMCs).

Immunofluorescence staining of phosphorylated Smad2/3 (red) in control and FRS2 α knockdown HASMCs. Nuclei were counterstained with DAPI (blue). Scale bar: 12 μ m. Control and FRS2 α knockdown HASMCs were serum starved for 8 hr then stimulated with TGF β 1 (0.5 ng/ml) for 15 min. Images are representative of three independent experiments.