Supplementary Materials

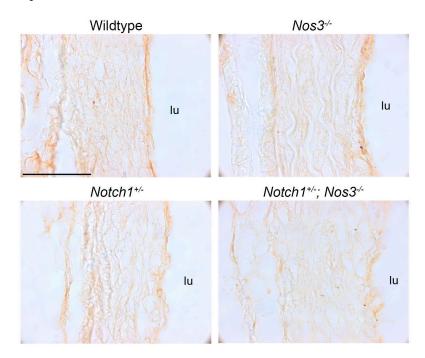


Figure S1. Expression of Notch1 intracellular domain (activated Notch1) by immunohistochemistry is decreased in endothelial cells lining the lumen (lu) of $Notch1^{+/-}$ and $Notch1^{+/-}$; $Nos3^{-/-}$ mice as compared to wildtype and $Nos3^{-/-}$. Scale bar = 50 microns.

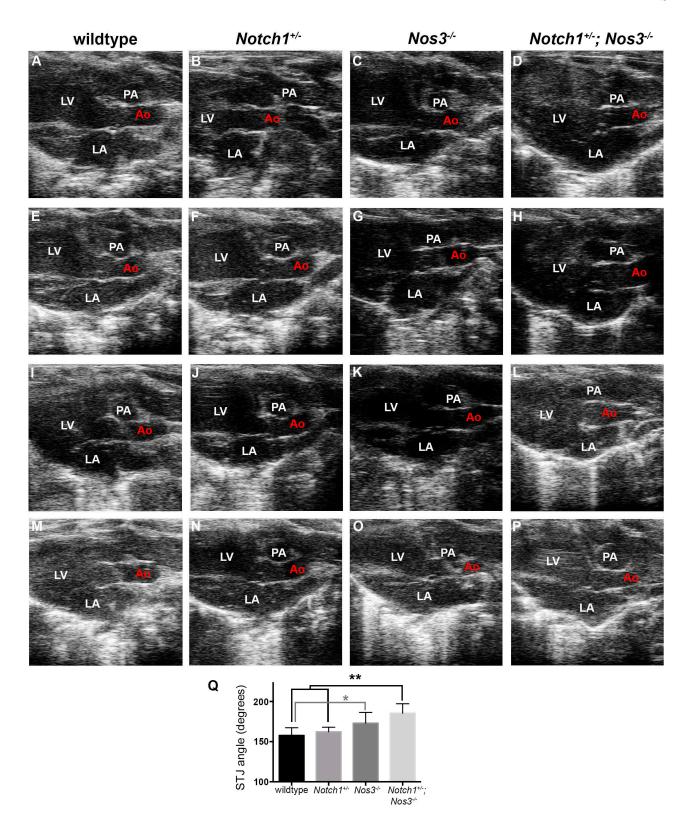
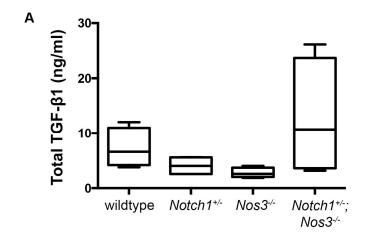


Figure S2. Representative echocardiographic images of ascending aorta from 6 month old mice of each genotype (\mathbf{A} – \mathbf{P}). Each image represents a different animal (4 mice per genotype are shown). LV, left ventricle; Ao, aorta. (\mathbf{Q}) Quantified aortic sinus-ascending aorta angle in 6 month old mice (* p value < 0.05, ** p value < 0.01).



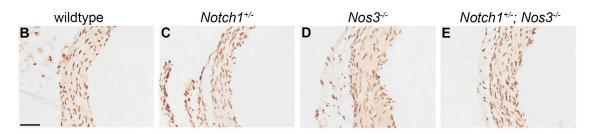


Figure S3. TGF-β signaling is not consistently elevated in $Notch1^{+/-}$; $Nos3^{-/-}$ mice. (**A**) Serum levels of total circulating TGF-β1 in serum from 8 month old mice of all four genotypes demonstrate no statistically significant differences. (**B**–**E**) Expression of phosphorylated SMAD2 by immunohistochemistry in the aortic wall is unchanged between genotypes. Aortas of 8 month old mice were examine at n = 3 per genotype.