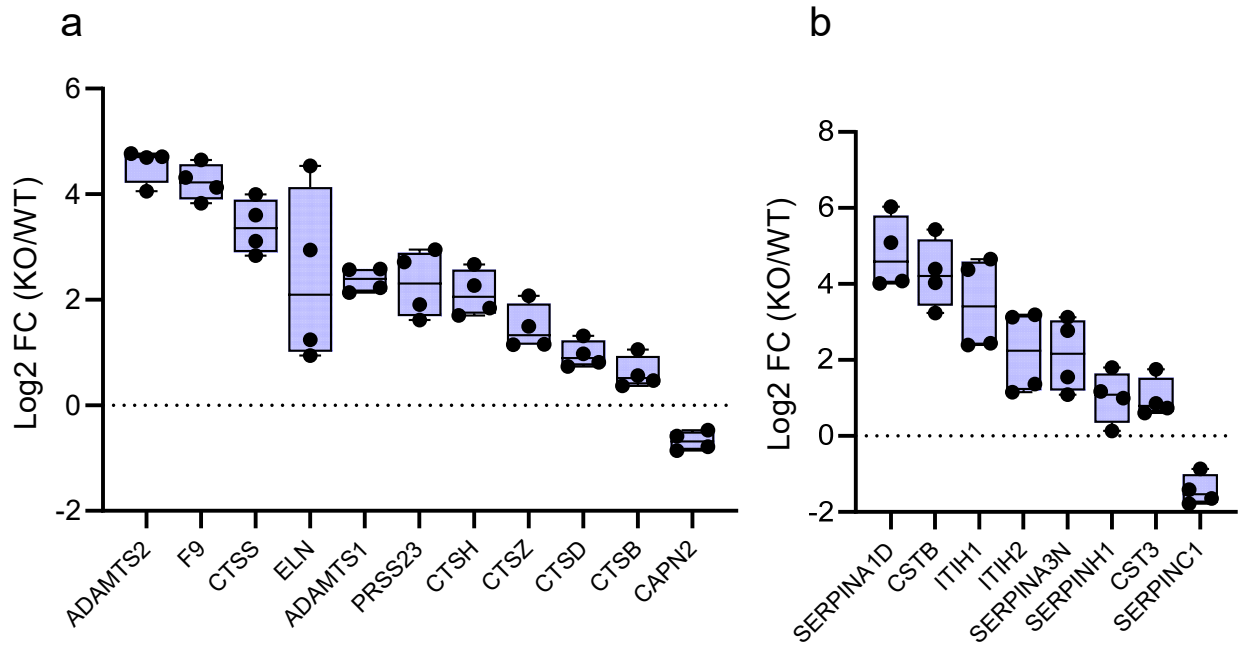


Supplemental data

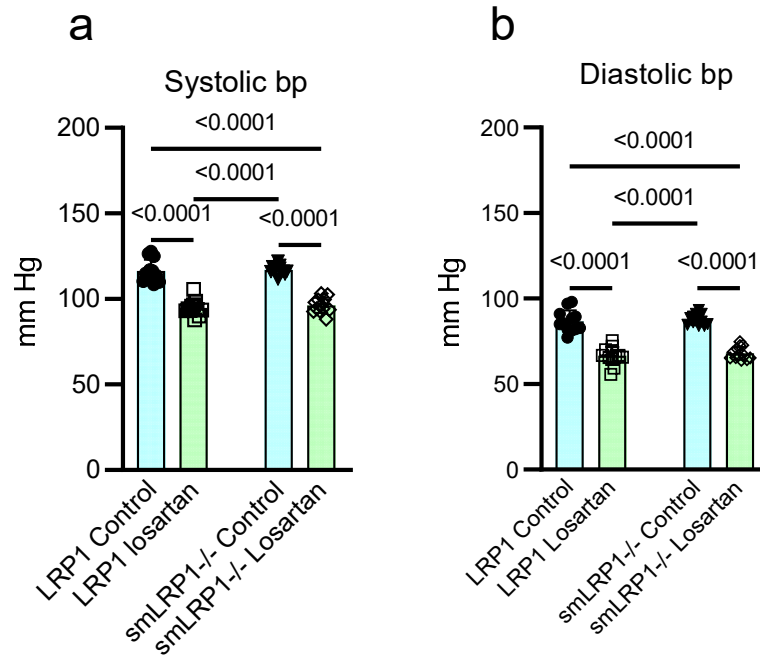
LRP1 protects against excessive superior mesenteric artery remodeling by modulating angiotensin II-mediated signaling

Table I. Fold change in integrins and associated proteins in smLRP1^{-/-} mice

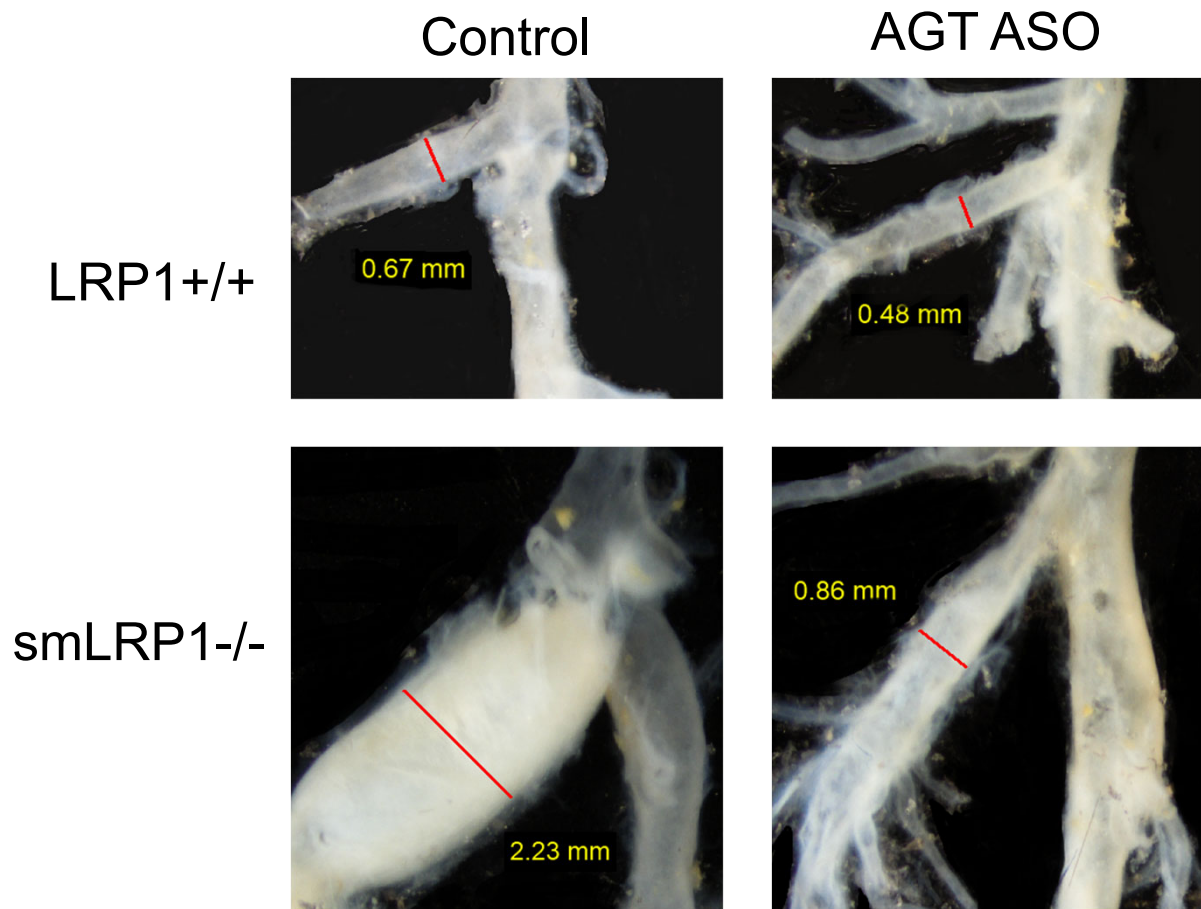
Protein ID	Log2 FC KO/LRP1 ^{+/+}	FDR value
ITGB2	1.60	0.0013
ITGAM	0.82	0.0301
ITGAV	-0.38	0.0403
ITGA1	-0.69	0.0338
TLN1	-0.71	0.0009
ITGB1	-0.94	0.0019
ITGA5	-0.96	0.0056
ITGA3	-0.99	0.0036
ITGA9	-0.99	0.0025
ITGA7	-1.07	0.0010
FERMT2	-1.20	0.0012
ITGB3	-1.26	0.0002
ITGA8	-1.71	0.0020



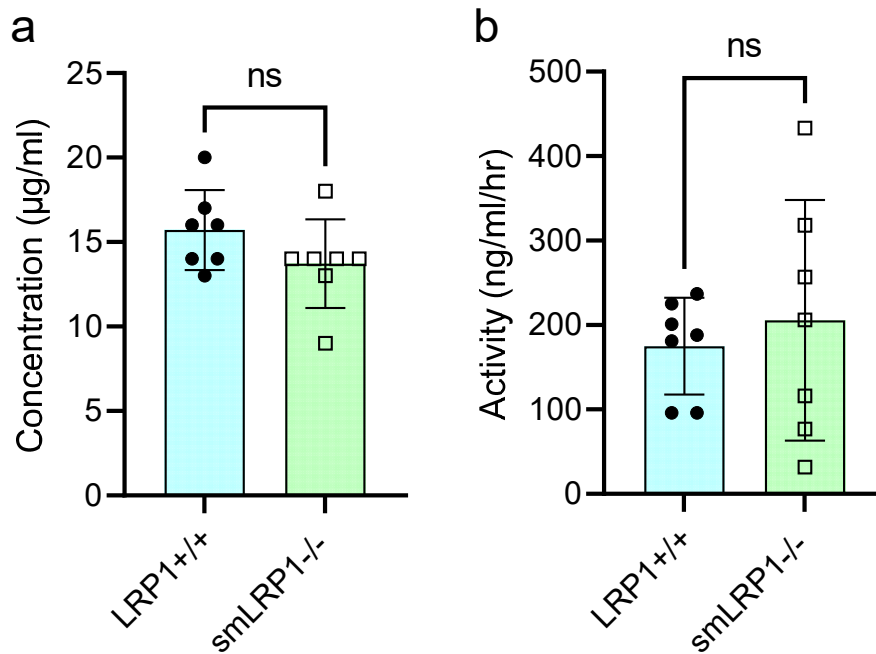
Supplemental Figure 1. Proteinases (a) and proteinase inhibitors (b) are deregulated in smLRP1^{-/-} mice as revealed by mass spectrometry. Log2 fold change in several proteinases (a) or proteinase inhibitors (b) whose levels are altered in the SMA of smLRP1^{-/-} as detected by mass spectrometry.



Supplemental Figure 2. Losartan administration reduced blood pressure in both LRP1+/+ and smLRP1-/- mice. After weaning at 3-4 weeks of age, mice were provided with or without losartan (0.6 g/L drinking water) and kept on the drug for 12 weeks before analysis. For blood pressure measurements, non-invasive measurements of systolic and diastolic blood pressures were averaged over approximately 15 recorded cycles and were taken daily for two weeks to allow mice to acclimate to the device. The remaining measurements were taken three times each week for the remaining length of the experiment. One way ANOVA with Dunnett's multiple comparison test



Supplemental Figure 3. Ex-vivo measurement of SMA diameter for LRP1^{+/+} and smLRP1^{-/-} mice receiving AGT ASO



Supplemental Figure 4. Angiotensinogen and renin concentrations in plasma of LRP1^{+/+} and smLRP1^{-/-} mice are similar. (a) Plasma collected from 16–18 week old LRP1^{+/+} and smLRP1^{-/-} mice were assayed for AGT concentrations by ELISA. (b) Renin activity concentrations were measured by incubating plasma with recombinant mouse AGT at 37°C for 1 hour, and then quantifying the amount of angiotensin I product formed. (Students *t* test)