

Supplementary Materials

The Vascular Function of Resistance Arteries Depends on NADPH Oxidase 4 and Is Exacerbated by Perivascular Adipose Tissue

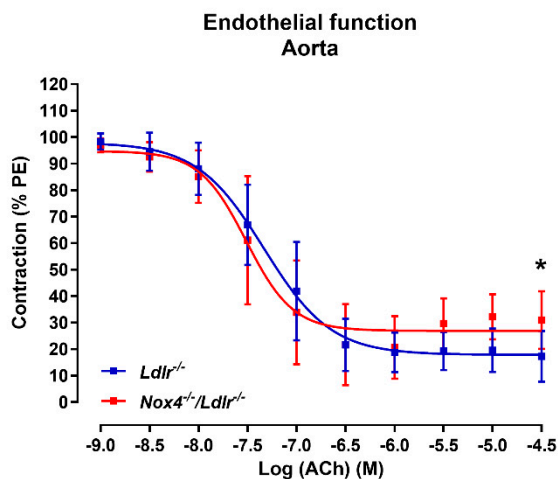
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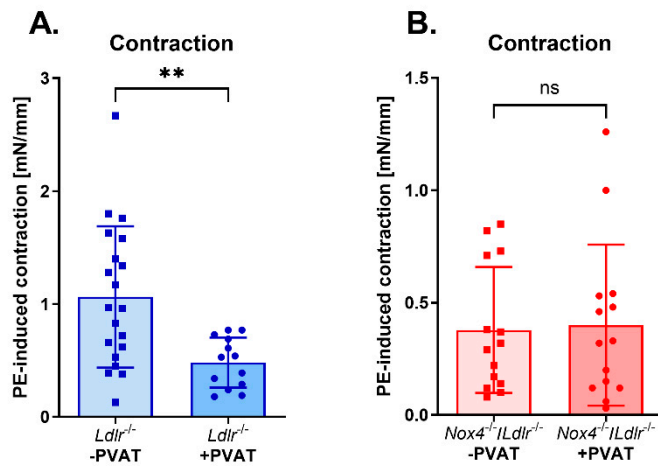
[†] These authors contributed equally to this study.

Supplement Figures



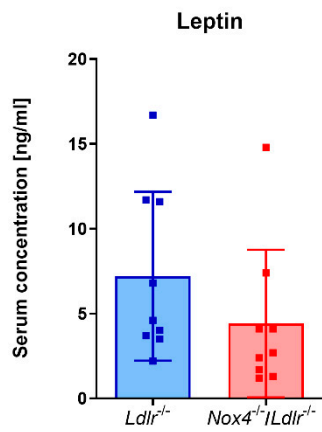
Supplement Figure S1. Endothelium-dependent vasorelaxation in the aorta of 26-week-old $Ldlr^{-/-}$ and $Nox4^{-/-}/Ldlr^{-/-}$ mice.

Concentration-response curve for acetylcholine (ACh) in aortic segments of $Ldlr^{-/-}$ and $Nox4^{-/-}/Ldlr^{-/-}$ mice ($n \geq 9$). Statistics: repeated measures ANOVA; $*p < 0.05$.

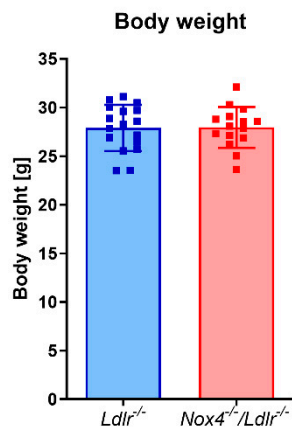


Supplement Figure S2. Phenylephrine-induced contraction in mesenteric arteries without and with perivascular adipose tissue of *Ldlr*^{-/-} and *Nox4*^{-/-}/*Ldlr*^{-/-} mice.

(A) Phenylephrine (PE)-induced contraction in mesenteric arteries without (-PVAT) and with perivascular adipose tissue (+PVAT) of *Ldlr*^{-/-} mice ($n \geq 13$). (B) Phenylephrine (PE)-induced contraction in mesenteric arteries without (-PVAT) and with perivascular adipose tissue (+PVAT) of *Nox4*^{-/-}/*Ldlr*^{-/-} mice ($n \geq 14$). Statistics: t test; ** $p < 0.01$, ns, not significant.



Supplement Figure S3. Leptin serum concentration in *Ldlr*^{-/-} and *Nox4*^{-/-}/*Ldlr*^{-/-} mice. Leptin serum concentration in 26-week-old *Ldlr*^{-/-} and *Nox4*^{-/-}/*Ldlr*^{-/-} mice. (*n* ≥ 9).



Supplement Figure S4. Body weight of *Ldlr*^{-/-} and *Nox4*^{-/-}/*Ldlr*^{-/-} mice. Body weight of 26-week-old *Ldlr*^{-/-} and *Nox4*^{-/-}/*Ldlr*^{-/-} mice ($n \geq 15$).