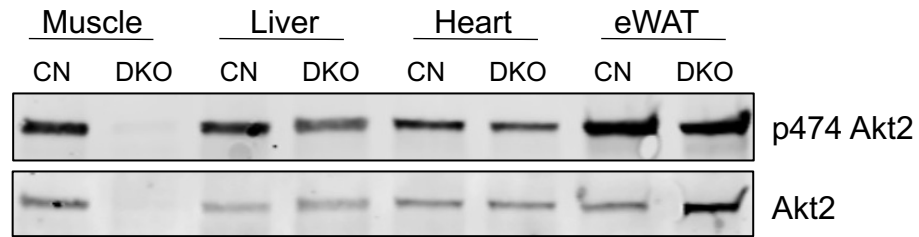
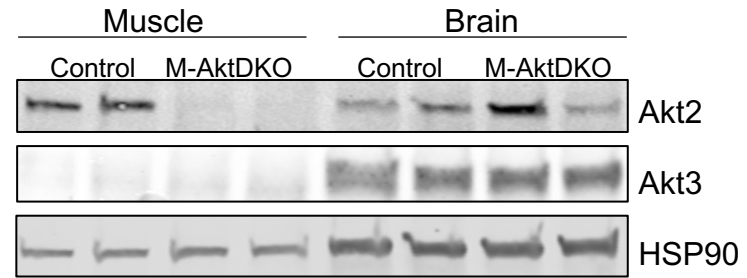


Supplementary Figure 1: Normal activation of the insulin receptor and liver and heart Akt signaling in M-AktDKO mice.

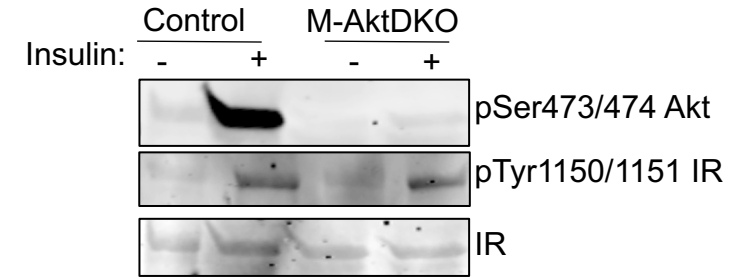
A



B

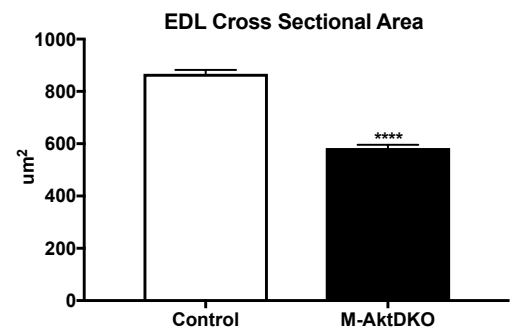
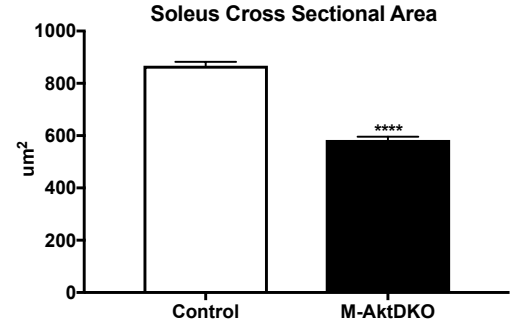
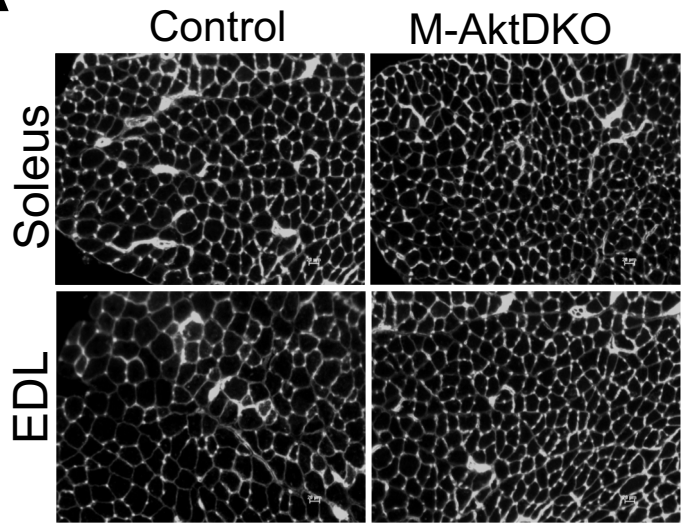


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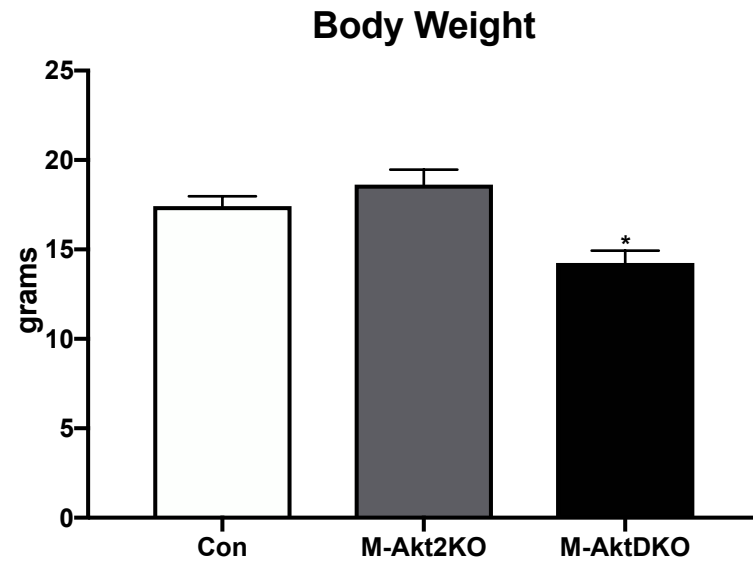
Supplemental Figure 2: Deletion of Akt results in a decrease myofibril size and alters muscle morphology

A

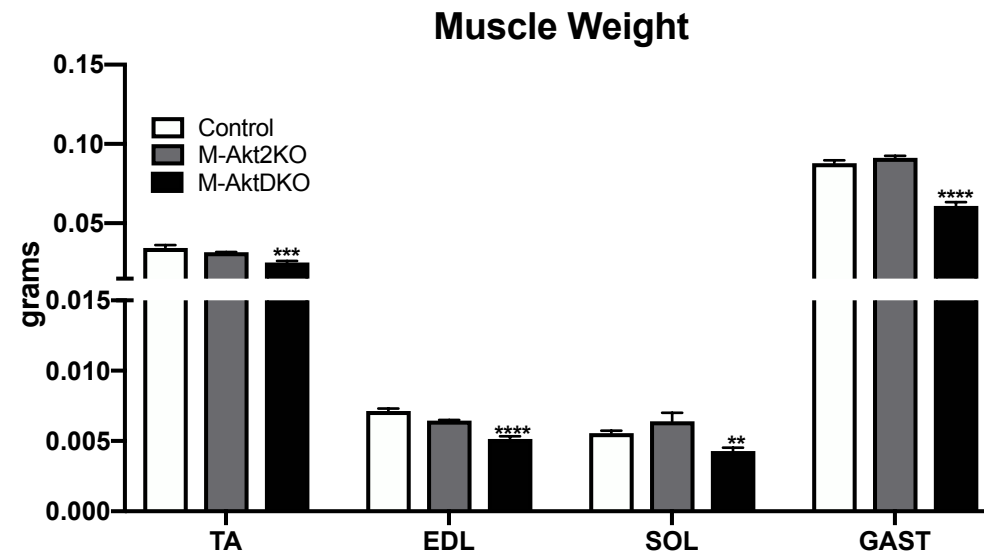


Supplementary Figure 3: Female M-AktDKO mice display a significant reduction in muscle mass

A



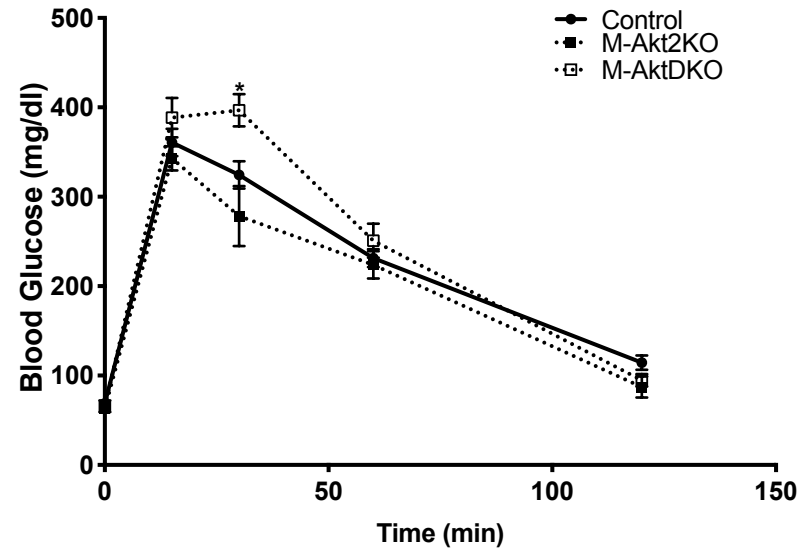
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Supplementary Figure 4: Female M-AktDKO mice exhibit mild alteration in glucose homeostasis

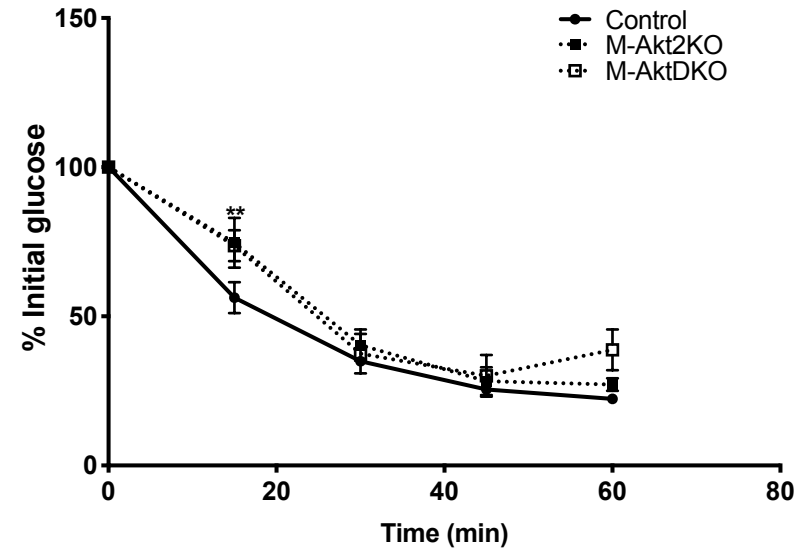
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Glucose Tolerance Test

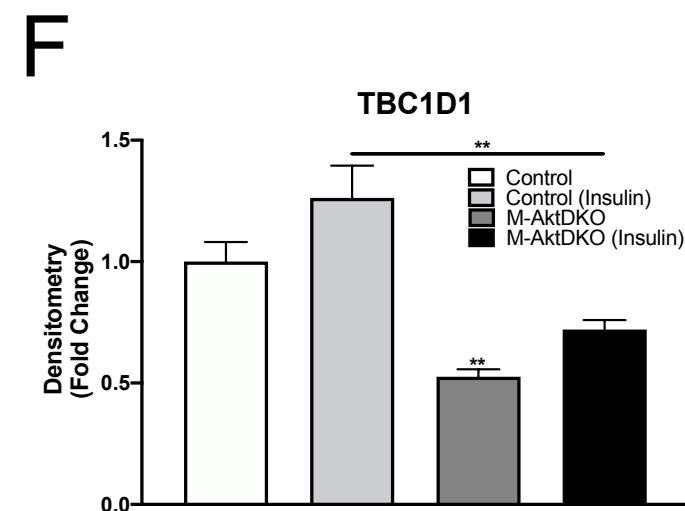
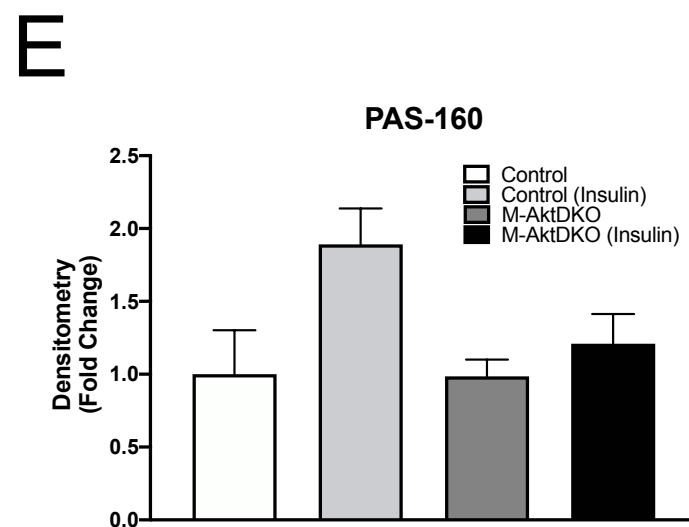
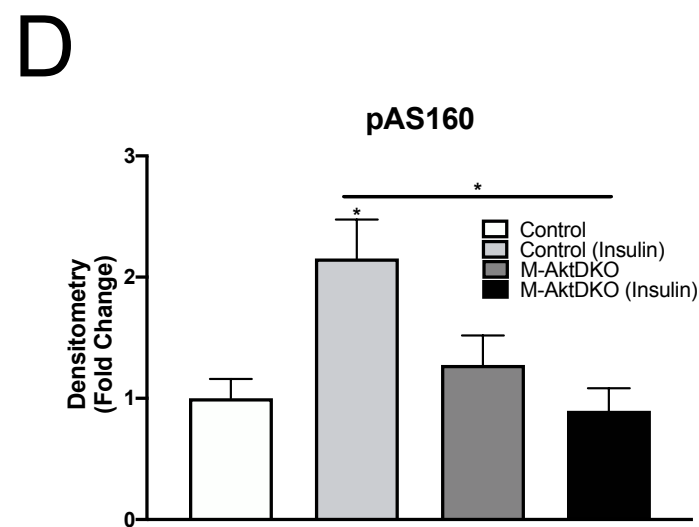
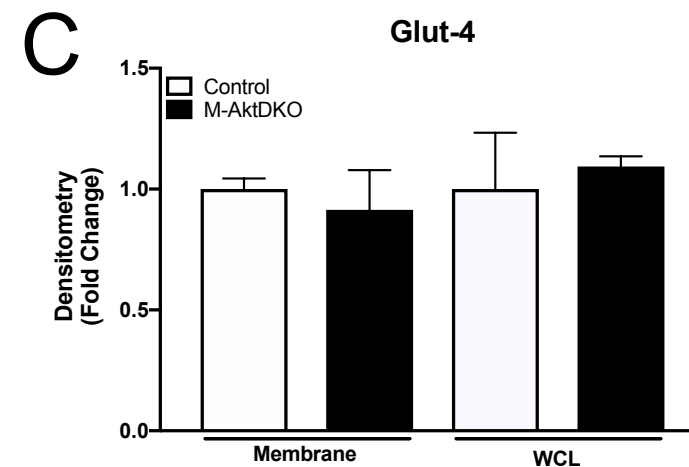
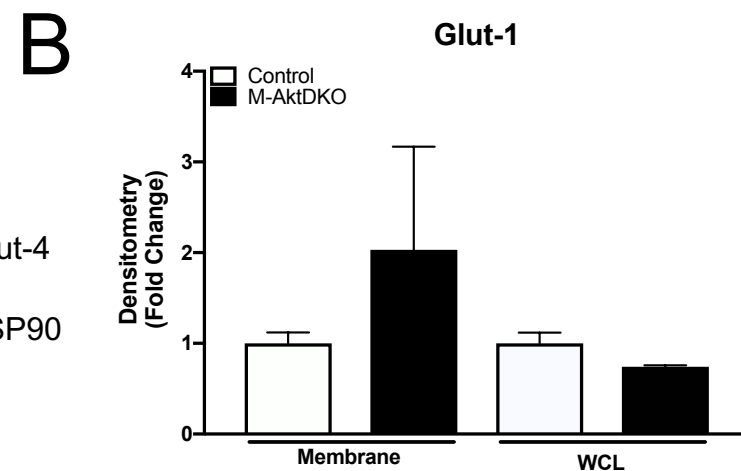
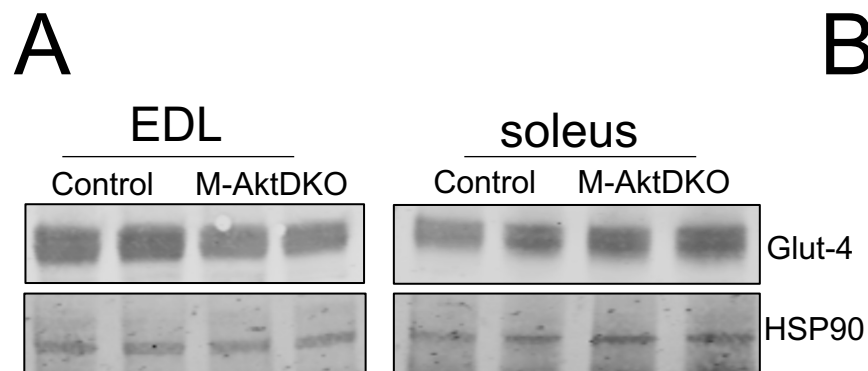


B

Insulin Tolerance Test

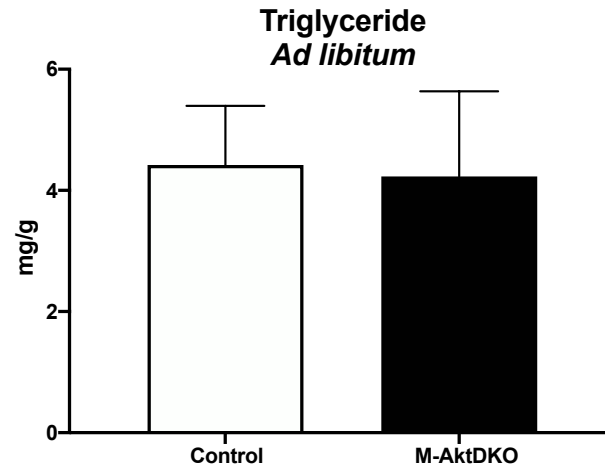


Supplementary Figure 5. Glut-4 protein expression in EDL and soleus muscle in M-AktDKO mice and quantitation of western blots from Figure 4

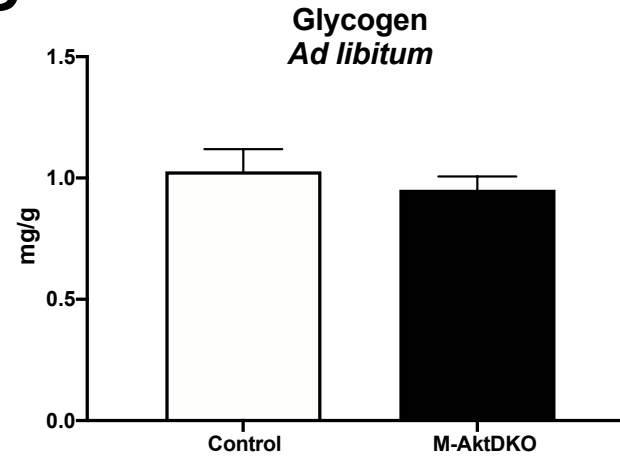


Supplementary figure 6: M-AktDKO mice display normal triglyceride and glycogen content

A

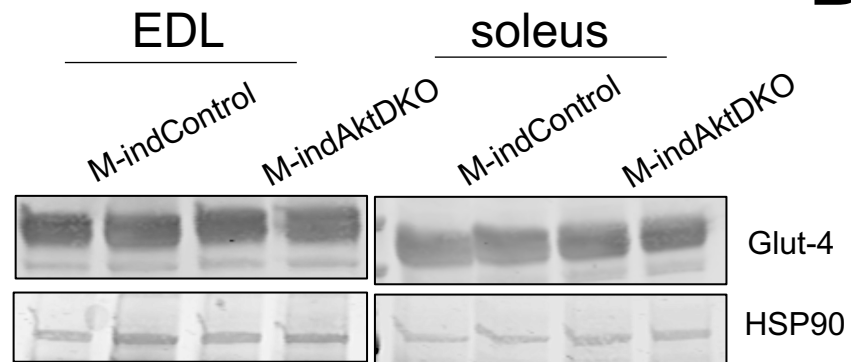


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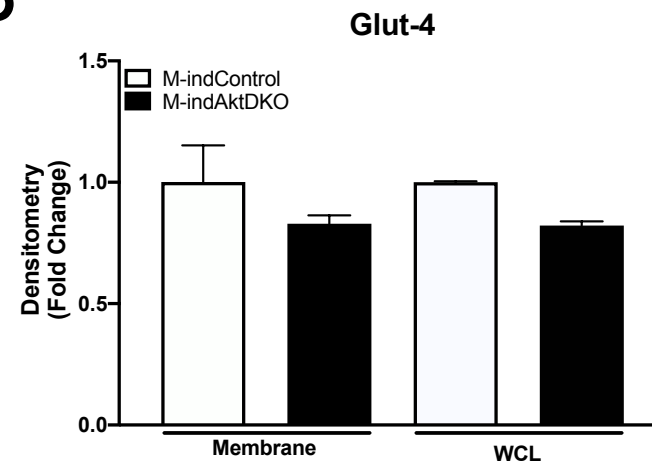


Supplementary Figure 7. Glut-4 protein expression in EDL and soleus muscle in M-indAktDKO mice and quantitation of western blots from Figure 6

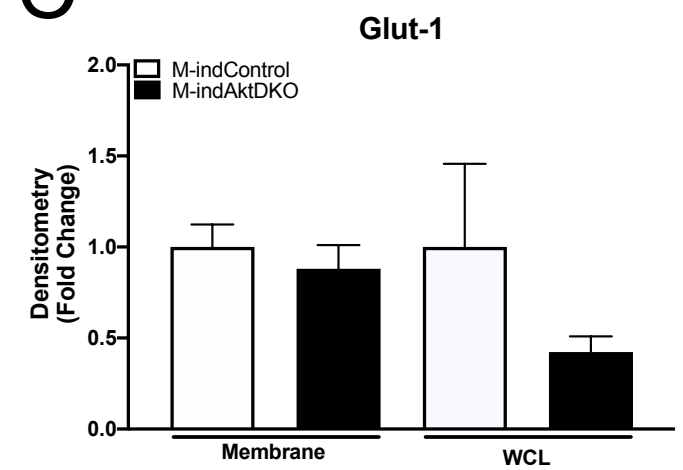
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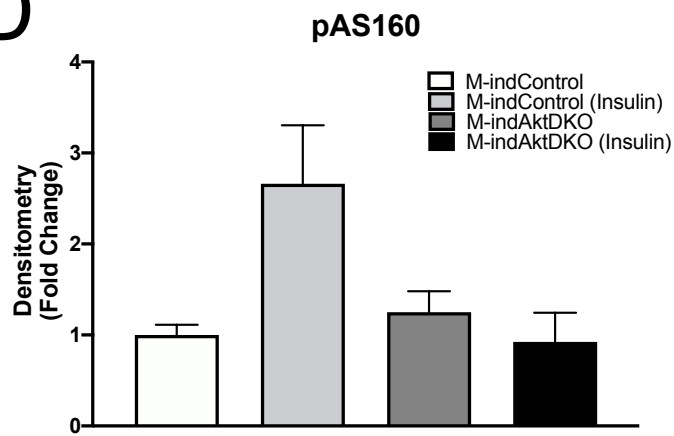
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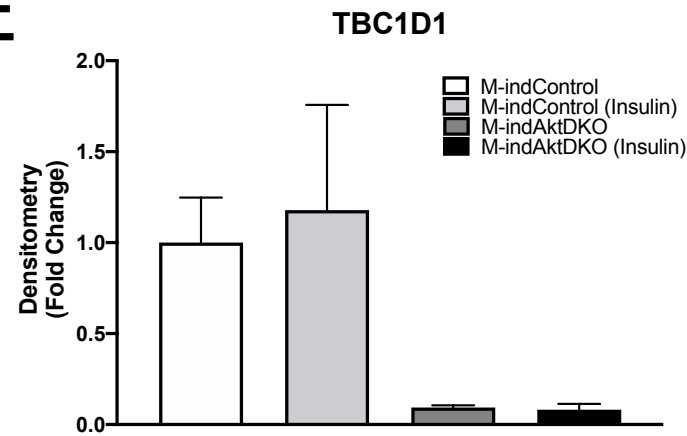
C



D

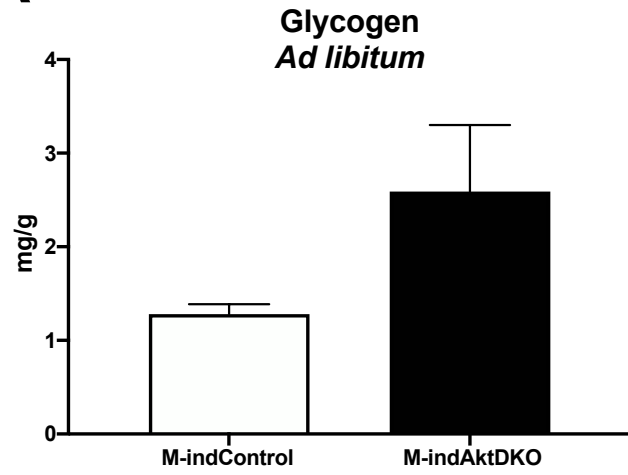


E



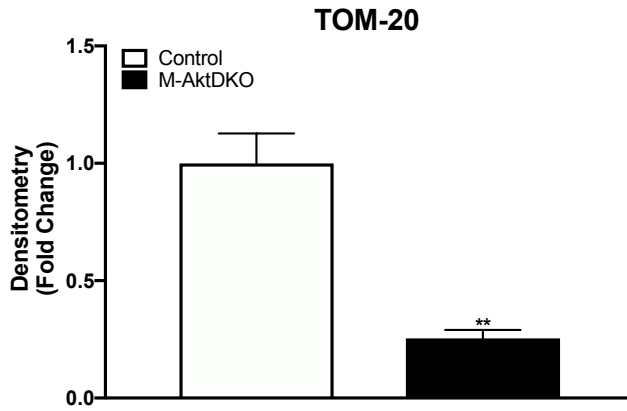
Supplementary Figure 8. Glycogen content in Quadriceps muscles of M-indAktDKO mice 4 weeks post-tamoxifen

A

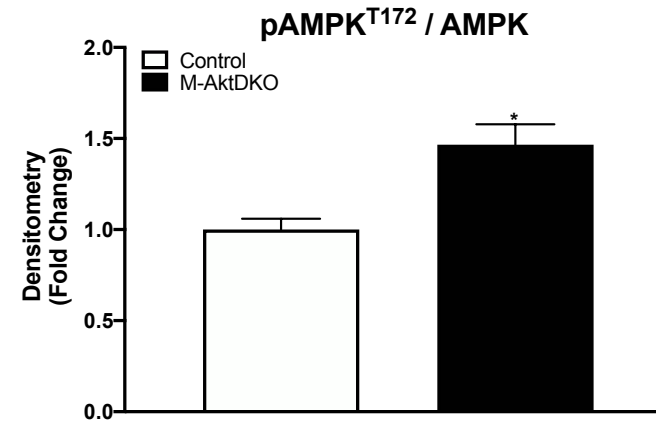


Supplementary Figure 9: Quantitation of western blots from Figure 7 and treatment with SBI-0206965, a small molecule AMPK inhibitor, in *ex vivo* muscle

A



B



C

