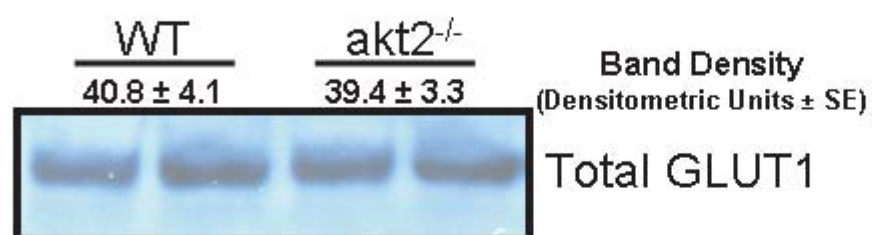
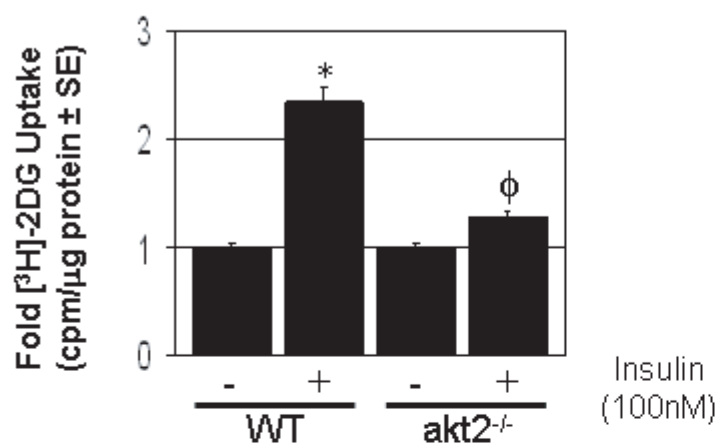


Supplementary Figure 1



Supplementary Figure 2



Supplementary Figure 3

	<u>WT</u>	<u><i>akt2^{-/-}</i></u>	<u>F-Statistic</u>	<u>P-Value</u>
n	9	8		
HR (min ⁻¹)	276 ± 10	271 ± 18	0.063	0.806
Peak Systolic Pressure (mmHg)	64.5 ± 1.7	65.7 ± 2.1	0.201	0.660
Cardiac Output (ml/min)	10.9 ± 0.5	10.0 ± 1.0	0.695	0.417
Coronary Flow (ml/min)	2.5 ± 0.4	2.0 ± 0.3	0.959	0.343
Cardiac Work (ml*mmHg/min)	7.0 ± 0.4	6.5 ± 0.5	0.622	0.442
Stroke Work (g*meters)	0.026 ± 0.001	0.025 ± 0.002	0.215	0.650
Cardiac Power (joules/min)	76.9 ± 4.3	70.6 ± 5.6	0.817	0.380

Supplementary Figure 4

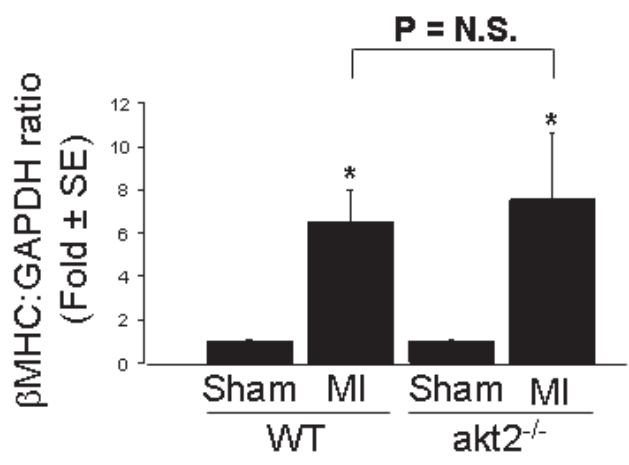
	<u>WT</u>	<u>akt2^{-/-}</u>	<u>F-Statistic</u>	<u>P-Value</u>
n	9	13		
HR (min ⁻¹)	670 ± 48	707 ± 30.4	0.198	0.053
LVPWd (mm)	0.59 ± 0.07	0.54 ± 0.05	0.233	0.077
IVSd(mm)	0.62 ± 0.08	0.61 ± 0.05	0.301	0.605
LVIDd (mm)	3.24 ± 0.33	3.22 ± 0.25	0.463	0.894
LVPWs (mm)	1.37 ± 0.15	1.35 ± 0.14	0.832	0.788
IVSs (mm)	1.51 ± 0.22	1.57 ± 0.14	0.207	0.493
LVIDs (mm)	1.26 ± 0.30	1.14 ± 0.23	0.469	0.317
LVMI (mg/g)	2.74 ± 0.42	2.83 ± 0.34	0.545	0.576
FS (%)	61.2 ± 7.61	64.9 ± 5.36	0.327	0.214

Supplementary Figure 5

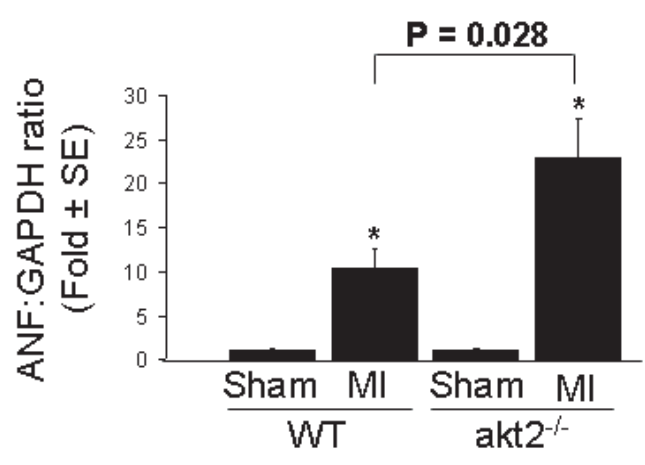


Supplementary Figure 6

A.



B.



Supplementary Figure 7

	wt (n=4)	akt2^{-/-} (n=5)	P-Value
SWMSI (1d)	0.34 ± 0.03	0.36 ± 0.05	0.70
EDV (7d)	44.0 ± 5.7	82.0 ± 12.9	0.043
ESV (7d)	25.1 ± 4.4	60.5 ± 12.9	0.05
EF (7d)	43.8 ± 2.8	28.6 ± 4.7	0.032