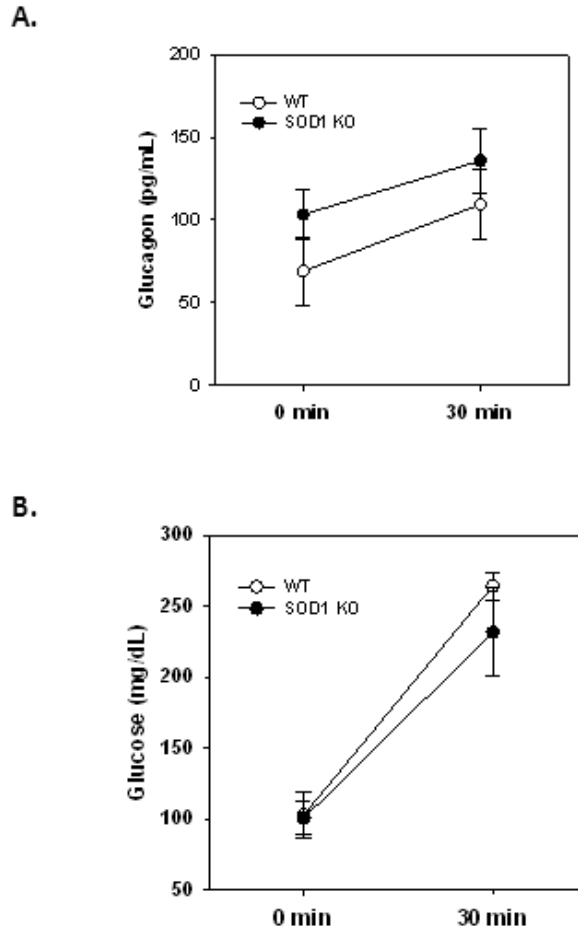
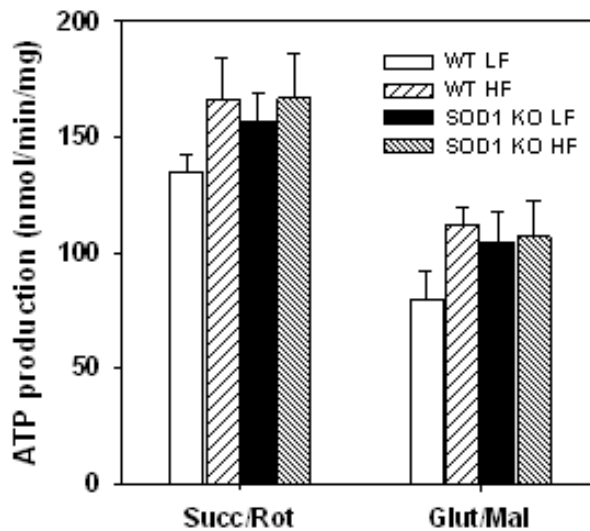


SUPPLEMENTARY DATA

**Supplementary Figure 1.** Plasma glucagon (A) and blood glucose (B) concentration before and after 2DG challenge. Data are means  $\pm$  SE.

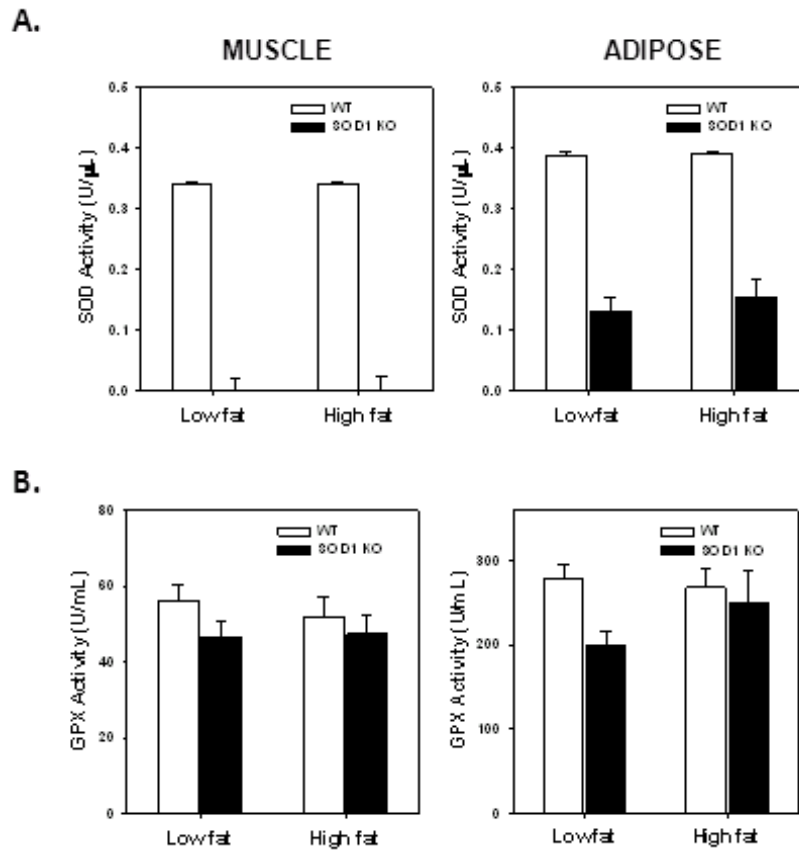


**Supplementary Figure 2.** H<sub>2</sub>O<sub>2</sub> production of isolated skeletal muscle mitochondria with different mitochondrial substrates. Data are means  $\pm$  SE.



SUPPLEMENTARY DATA

**Supplementary Figure 3.** Total SOD (A) and GPX (B) activity in skeletal muscle and adipose tissue. Data are means  $\pm$  SE.



**Supplementary Figure 4.** Representative blots and quantification of phospho-Akt and total Akt in muscle from low fat and high fat fed WT and SOD1 null mice. Data in quantification are means  $\pm$  SE.

