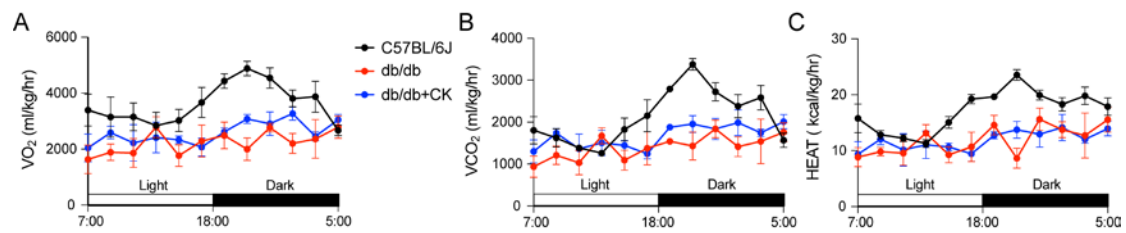
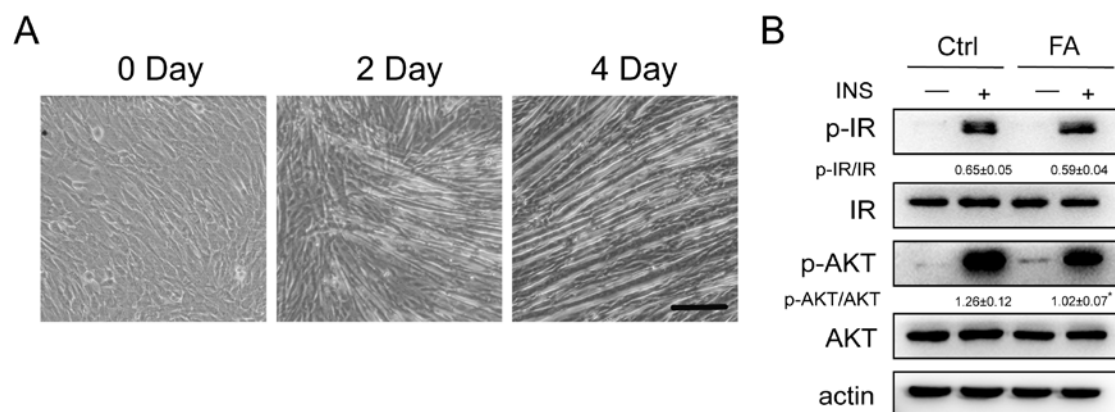


Supplementary Figures



Supplementary Figure 1. Ginsenoside CK did not affect oxygen consumption, carbon dioxide production and the whole-body energy expenditure. The db/db mice were intraperitoneal injected ginsenoside CK (10 mg/kg/d) for 4 weeks (n=4-8). (a) Oxygen consumption. (b) Carbon dioxide. (c) Heat production. Results are presented as mean±SD. # $p<0.05$, ## $p<0.01$, ### $p<0.001$ compared with C57BL/6J group; * $p<0.05$, ** $p<0.01$, *** $p<0.001$ compared with db/db group.



Supplementary Figure 2. Differentiated C2C12 muscle cells and insulin resistance model of C2C12 cells treated with FA. (a) Differentiation process morphology of skeletal muscle cell from C2C12 cells was observed under microscope. Scale bar, 200 μm. (b) p-IR/IR and p-AKT/AKT level analyzed using western blotting of muscle cells. The cells were cultured in differentiation medium or 0.25 mmol/l free fatty acid (FA) medium. Results are presented as mean ± SD. * $p<0.05$, ** $p<0.01$, *** $p<0.001$.