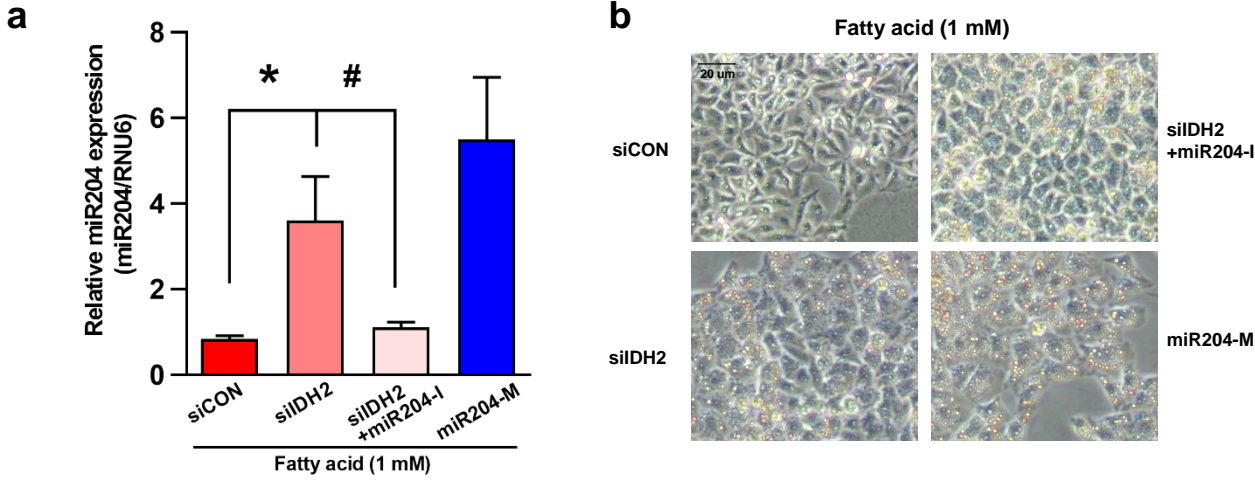


Supplementary Fig. 1 Correlation of lipid accumulation and miR204 expression in IDH2 deleted hepatocytes with 1 mM fatty acid (Oleic acid 0.66 mM : palmitic acid 0.33 mM).

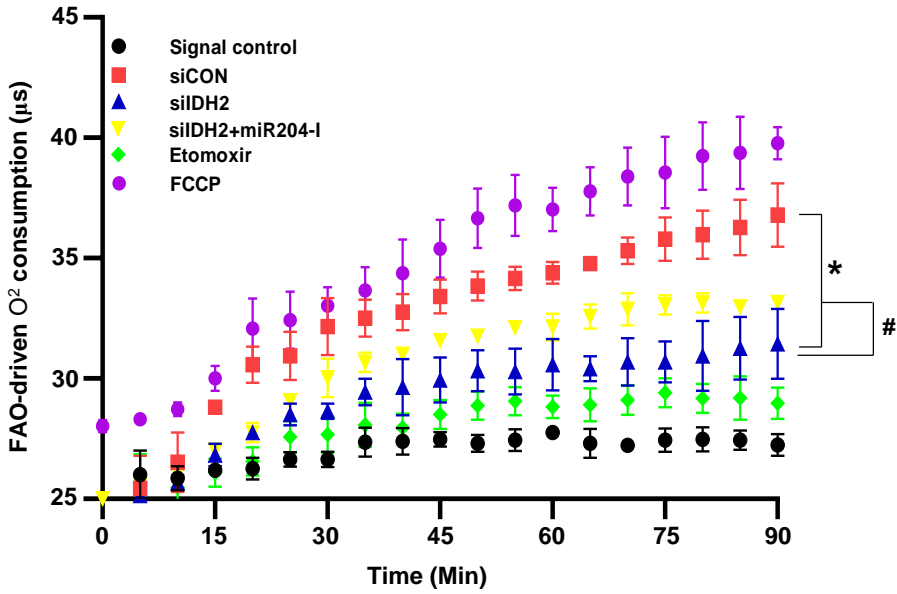


These cells were first transfected siCON, siIDH2, miR204-I and miR204-M after 24 h, and then treated fatty acid 24 h. **a** miR204 expression in hepatocytes; RNU6 was used as the internal control. **b** Oil Red O staining of hepatocytes. Scale bars, 20 μ m. Data are means \pm SEM of three independent experiments.

*p < 0.05 vs. control hepatocyte. #p < 0.05 vs. siIDH2 transfected hepatocyte.

Supplementary Fig. 2 Inhibition of miR204 rescues Fatty Acid Oxidation (FAO) in IDH2 deficient hepatocytes

a



These cells were first transfected siCON, siIDH2 and siIDH2+miR204 after 24 h, and then measured FAO. **a** FAO activity in hepatocytes; FCCP and Etomoxir were used as the positive control and Negative control in FAO activity, respectively. Data are means \pm SEM of three independent experiments.

*p < 0.05 vs. siCON transfected hepatocyte. #p < 0.05 vs. siIDH2 transfected hepatocyte.

Fig.4E

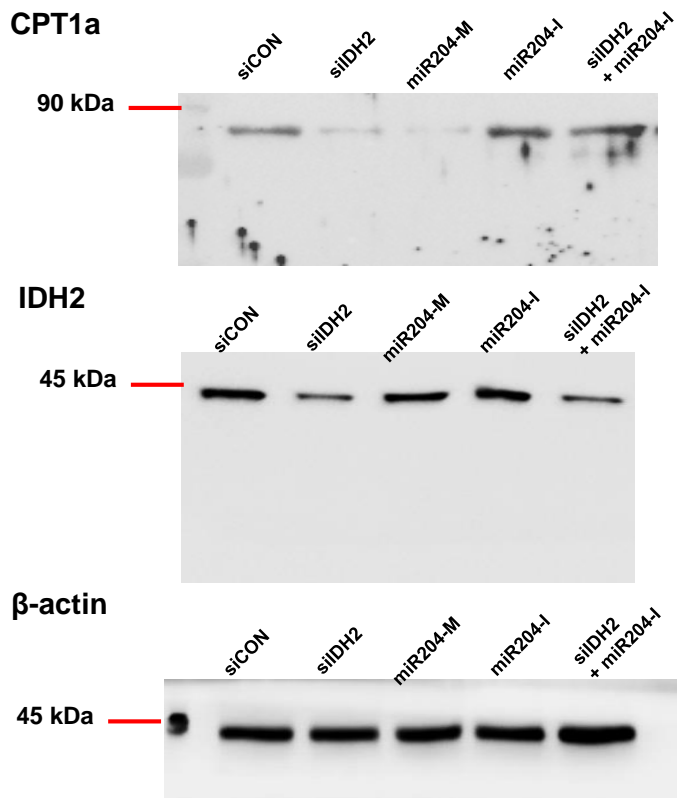


Fig.5B

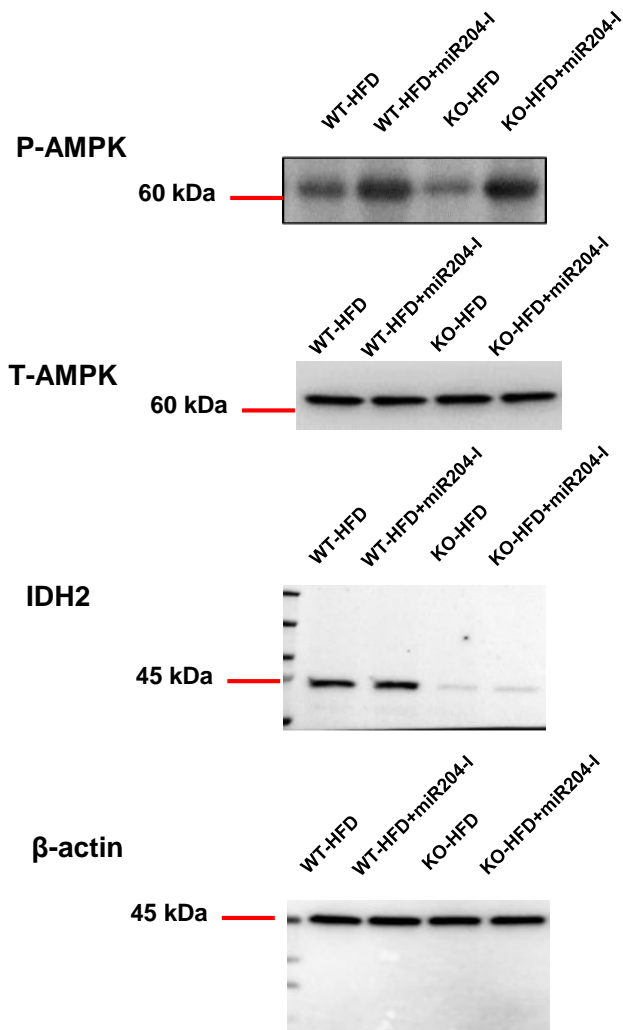


Fig.5B

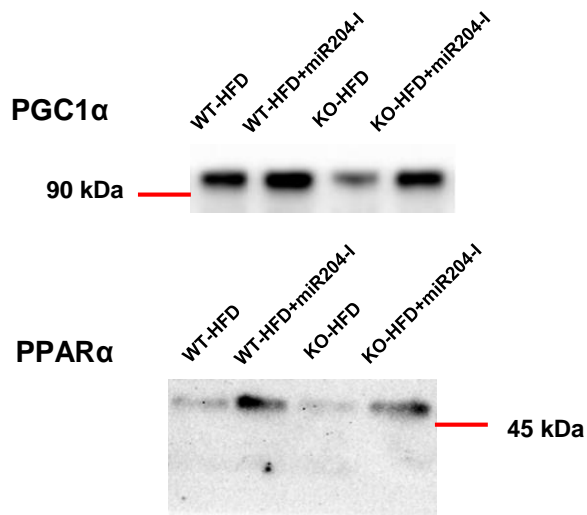


Fig.6J

