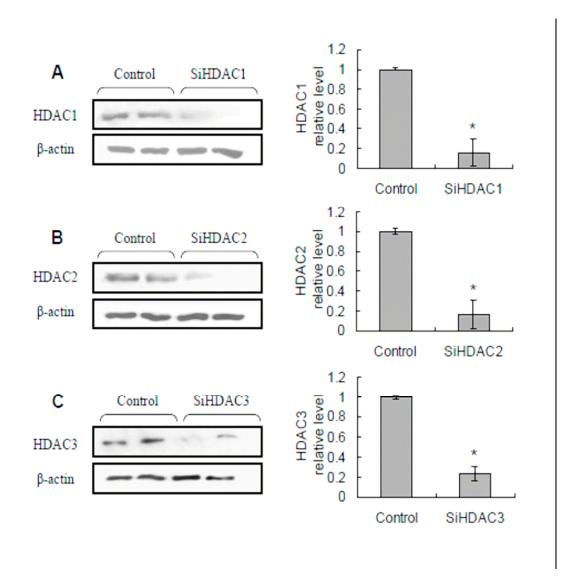
SUPPLEMENTARY DATA

Supplementary Figure 1. Knockdown of HDAC1, HDAC2 and HDAC3 by siRNA. Western blot analysis was used to determine the levels of HDAC1 (A), HDAC2 (B), HDAC3 (C) in 293 cells. The relative expression was normalized with β-actin. All of siRNA reduced the expression of their target genes in a specific manner. Quantification was performed using the software ImageJ. Data are expressed as mean \pm SEM (n = 4). *, vs. control, P < 0.05.



Supplementary Figure 2. Butyrate reduces glucose in the dietary obese mice. **(A)** Blood glucose concentrations at 7 hrs after butyrate injection in the obese mice. **(B)** Correlation of the blood glucose drop with the increase in serum FGF21 in obese mice treated with butyrate. **(C)** Correlations of the blood glucose drop with the increase in serum FGF21 in the obese mice treated with TSA. Data were expressed as mean \pm SEM (n = 6-8). *, vs. PBS, P < 0.05.

