Reviewer's report

Title: HOX-7 suppresses body weight gain and adipogenesis-related gene expression in high-fat-diet-induced obese mice

Version: 2
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Reviewer: Woong Mo Yang

Reviewer's report:

Authors analyzed the inhibitory effects of HOX-7 on HFD-induced obesity. Although the experiments were well organized and performed, the manuscript needs a revision for publication.

- Minor Essential Revisions

1. In methods of abstract, it is unclear whether authors summarized the experimental design appropriately. More detailed methods are needed. In addition, it is recommended to delete the sentence ‘Food intake and body weight~ every week’. It seems unnecessary.

2. In Background, there are numerous therapeutics for treating obesity. It doubts whether current treatment strategies for obesity are grouped only into two categories.

3. The ‘animal experiments’ section should be described in more detail. There are few information, such as treatment volume, treatment period, HFD feeding period and number of animals.

4. How was the fat diameter measured? Per slide? How many slides? Please confirm it.

5. Page 10, line 2; page 11, line 6, 8, 10, 14; page 12, line 6. “SREBP-1c” should be changed to “SREBP1c”.

6. In figure 1A, “body weight” should be changed to “Body weight”.

7. In figure 3, “AP2” should be changed to “aP2”.

8. In figure 3 and 4, “SREBP” should be changed to “SREBP1c”.

9. In figure 4, it is recommended to suggest the method of densitometric analysis and equalize the density of bands.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.
Declaration of competing interests:

I declare that I have no competing interests