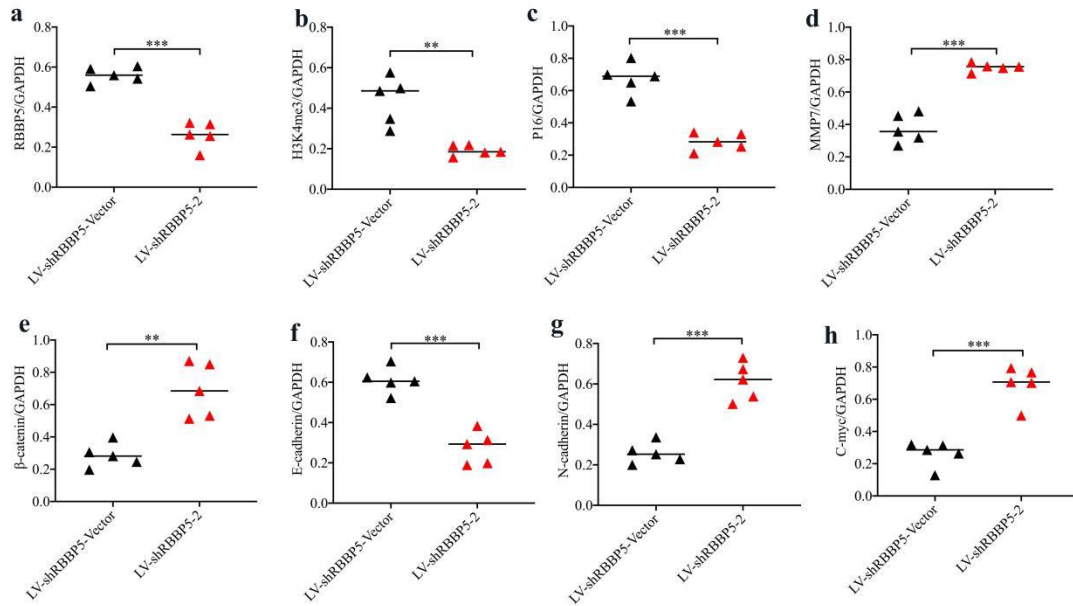1   **Supplementary Figures**

2   **Supplementary Figure S1：Expression of related proteins after knockdown RBBP5   in Mouse**
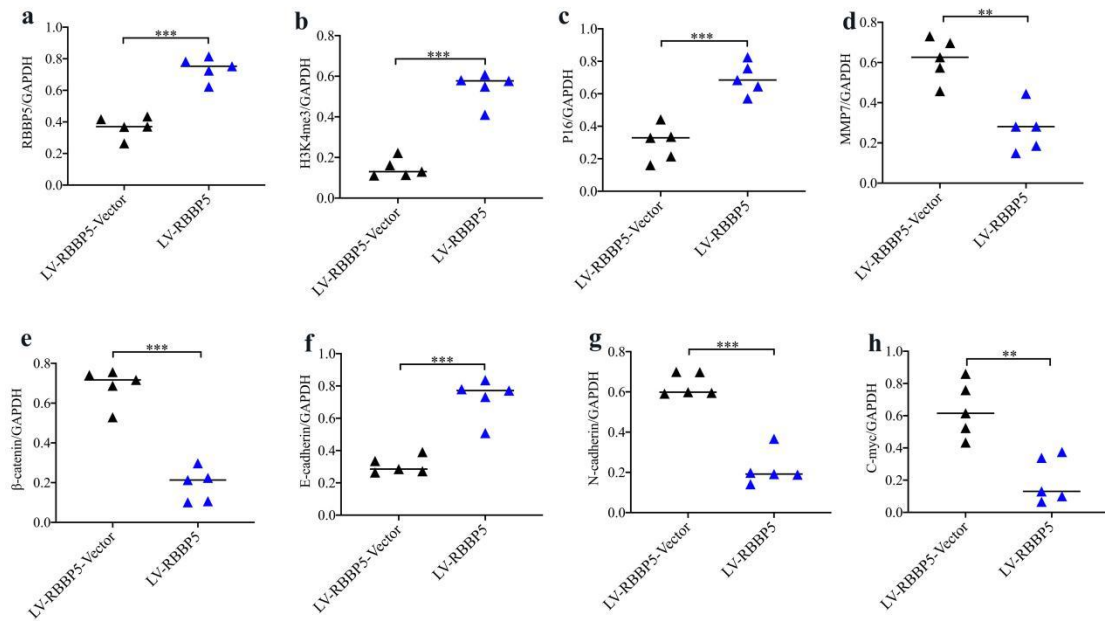3   **xenograft tumour tissues**.

4

5   **Supplementary Figure S1：Expression of related proteins after knockdown RBBP5   in Mouse**
6   **xenograft tumour tissues**. (a-c) Mouse xenograft tumour tissues were used to verify the expression
7   of the downstream proteins H3 K4 me3 and p1 6 by Western blotting. (d-h) Western blotting was
8   used to demonstrate the expression of β-catenin and c-myc in the Wnt/β-catenin signalling pathway
9   and N-cadherin, E-cadherin, and MMP-7 in EMT. Data are represented as the mean ± SD. *,
10   $p<0.05$, **, $p<0.01$, ***$p<0.001$; ns, no significance.

11

12   **Supplementary Figure S2：Expression of related proteins after overexpression RBBP5   in**
13   **Mouse xenograft tumour tissues.**

14

15   **Supplementary Figure S2：Expression of related proteins after overexpression RBBP5   in**
16   **Mouse xenograft tumour tissues.** Tumor tissues from 5 mouse in each group were used for

17　　Western blotting to confirm expression of related proteins after overexpression RBBP5 in A375 cells.
18　　(a-c) Mouse xenograft tumour tissues were used to verify the expression of the downstream proteins
19　　H3K4me3 and p16 by Western blotting. (d-h) Western blotting was used to demonstrate the
20　　expression of β-catenin and c-myc in the Wnt/β-catenin signalling pathway and N-cadherin,
21　　E-cadherin, and MMP-7 in EMT. Data are represented as the mean ± SD. *, $p<0.05$, **, $p<0.01$,
22　　***$p<0.001$; ns, no significance.
23

24　　**Supplementary Figure S3:The body weight of the mice after knockdown RBBP5 or**

25　　**overexpression.**
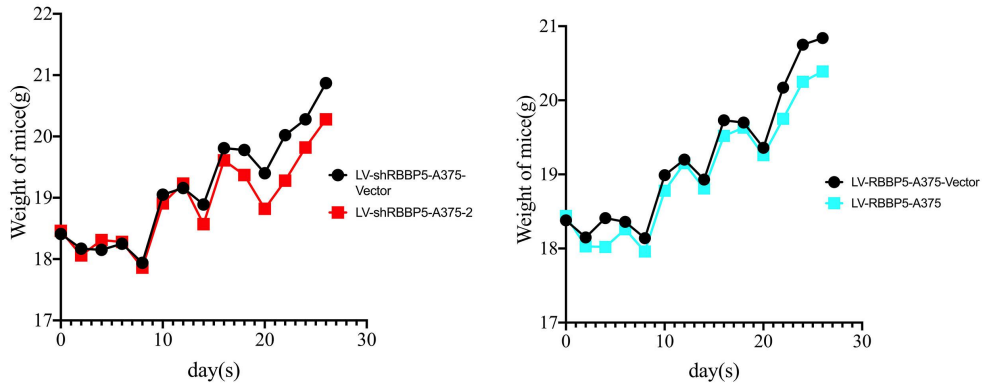
26
27

28　　**Figure S3:The body weight of the mice after knockdown RBBP5 or overexpression** Each mouse

29　　(each Group n = 10 biologically independent samples) was subcutaneously injected with 2×10^6 A375

30　　cells into the black (LV-shRBBP5-Vector), red (LV-shRBBP5-2) and blue (LV-shRBBP5). Weight

31　　changes were measured every two days, at the end of the experiment, The body weight of the mice are

32　　shown (S3). There was no significant statistical significance between two groups.